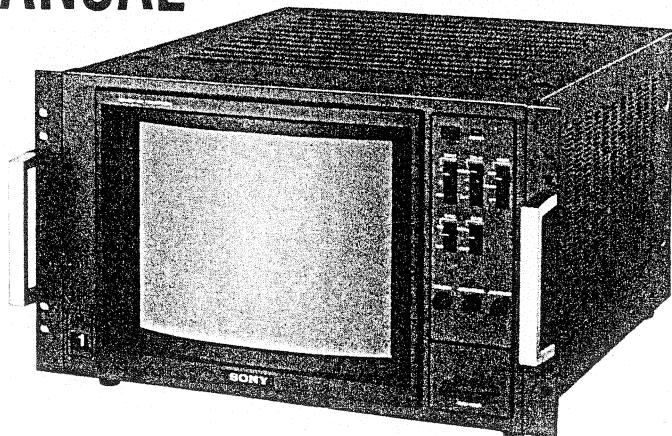


PVM-1320P

SERVICE MANUAL

Chassis No. SCC-363A



July, 1981

SPECIFICATIONS

Television system	CCIR standards B, G and H
Colour system	PAL colour system
Picture tube	Trinitron tube, 33 cm (31 cm measured diagonally)
	90 degree deflection
Video input	noncomposite : 0.7 V (p-p), unbalanced Composite : 0.5 - 2.0 V (p-p), sync negative
Sync input	1.0 - 8.0 V (p-p), nominally 4.0 V (p-p) negative
Video/sync input impedance	High impedance for loop-through ; 75Ω terminated
Power requirements	220 or 240 V ac ~ adjustable, 50/60 Hz
Power consumption	100 W

Dimensions	480 x 284 x 512 mm (w/h/d) (19 x 11 1/4 x 20 1/4 inches)
Weight	Approx. 25 kg (55 lb 2 oz)
Supplied accessories	Number plates (5) 4-pin connectors (2)

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK **⚠** ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.



TRINITRON®
COLOUR VIDEO MONITOR
SONY®

MON

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

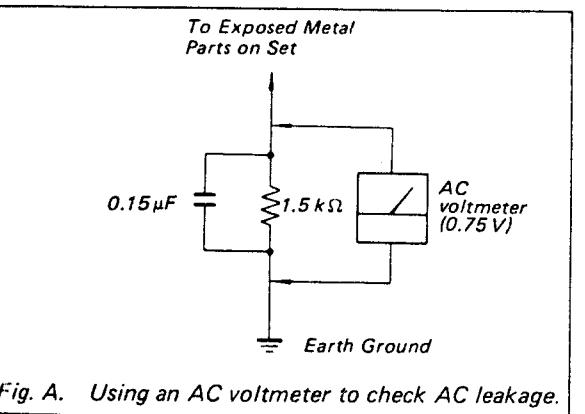


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamper). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

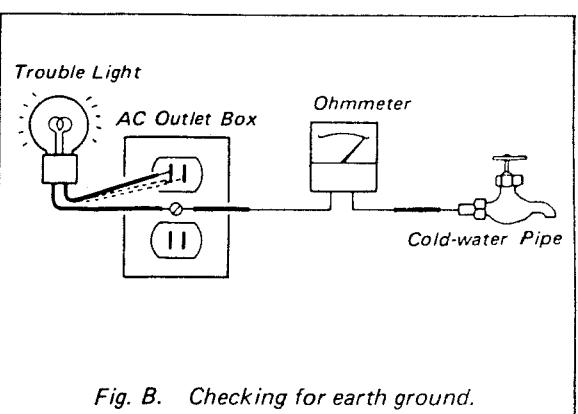
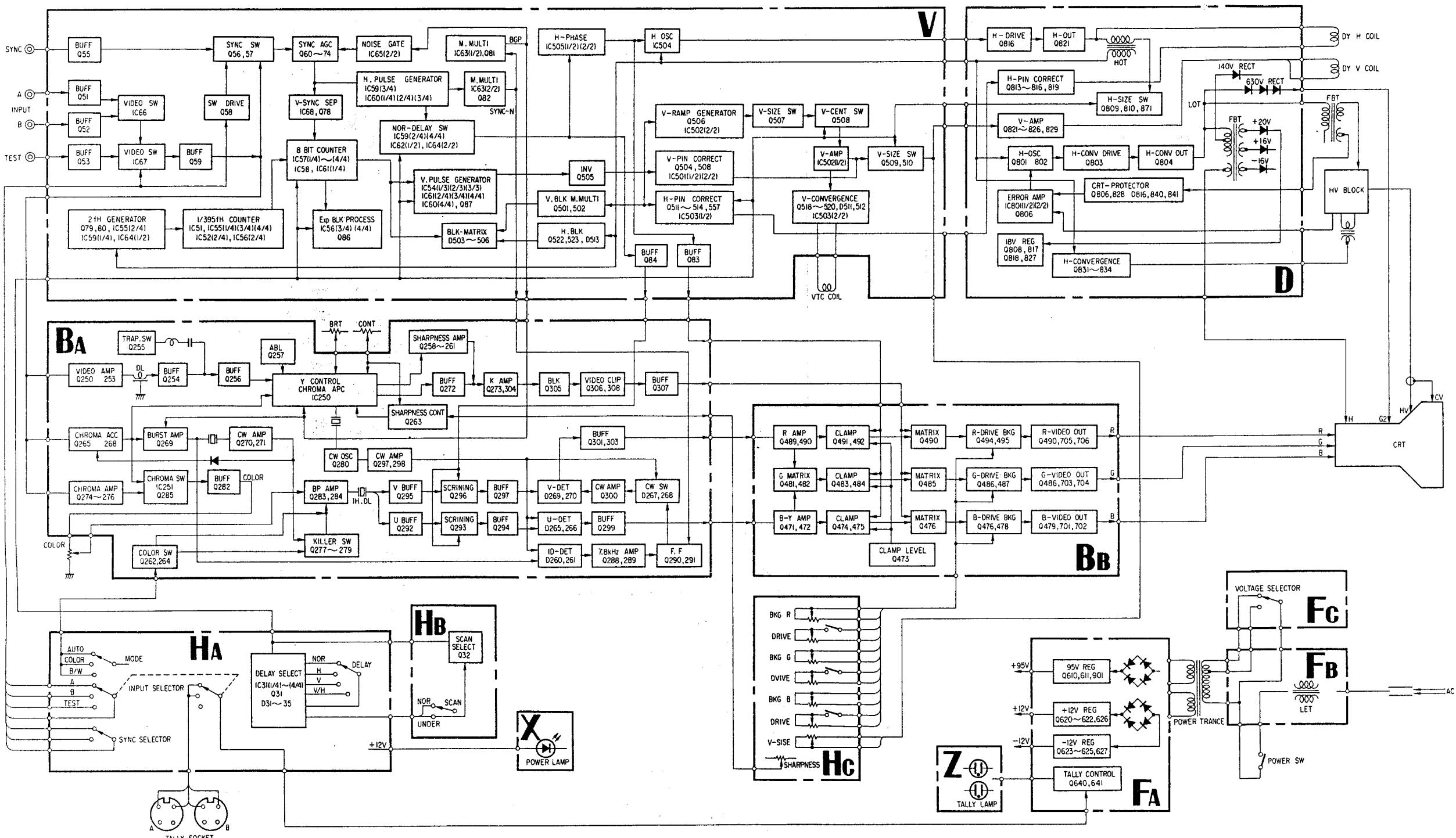


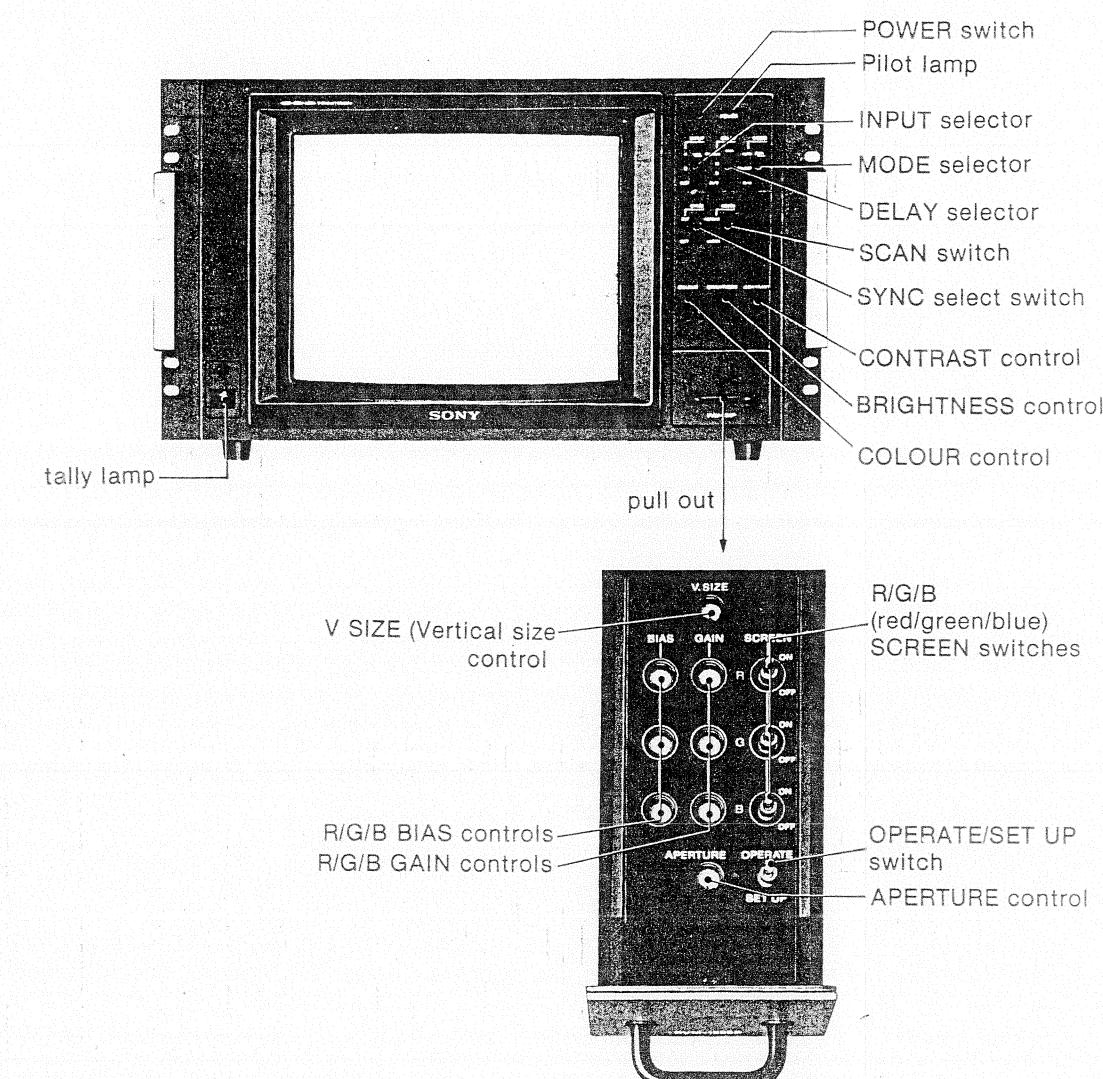
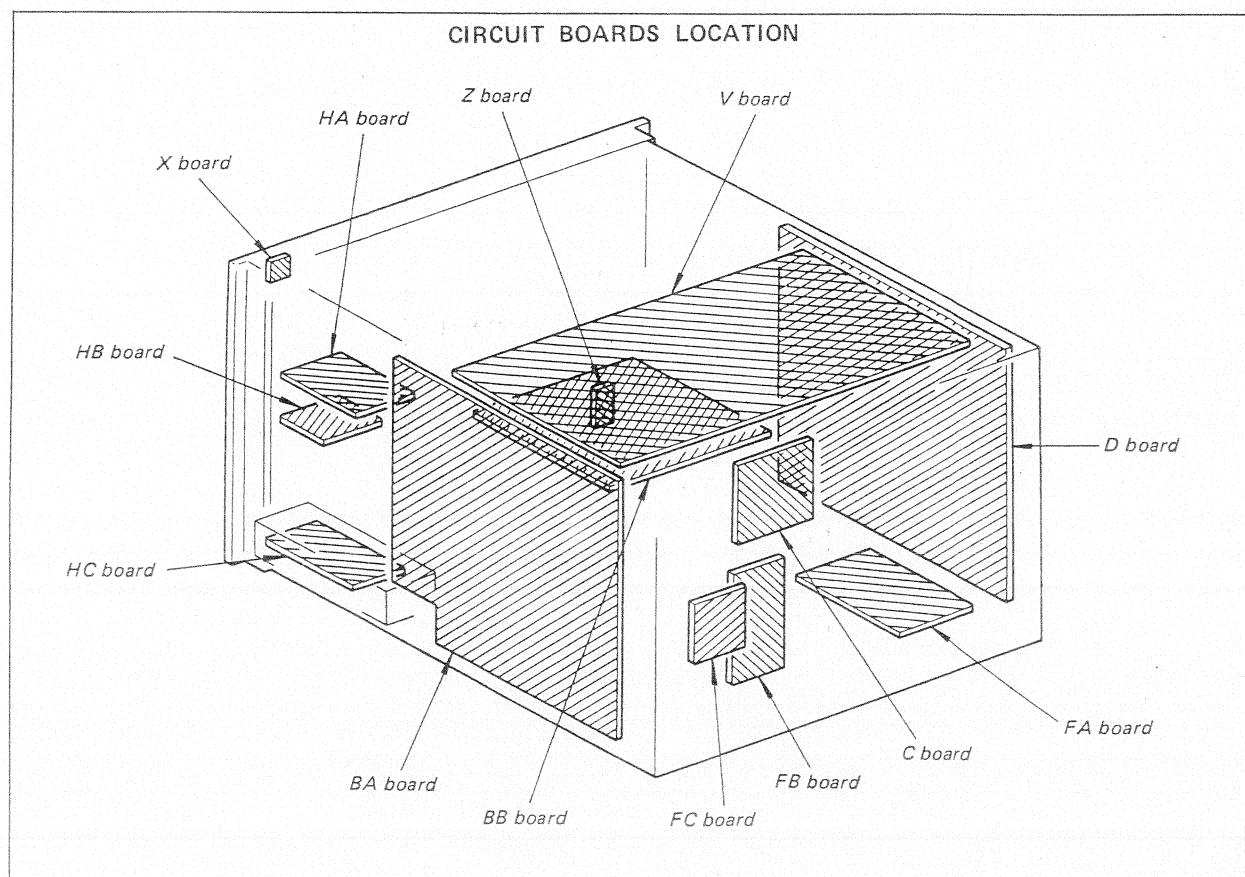
Fig. B. Checking for earth ground.

SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM



LOCATION AND FUNCTION OF CONTROLS AND CONNECTORS



POWER switch and pilot lamp

To turn the monitor on, depress the POWER switch ; the associated pilot lamp will light. To turn the monitor off, depress the button again.

INPUT SELECT buttons

A: for monitoring the picture connected to the VIDEO A IN connector.
B: for monitoring the picture connected to the VIDEO B IN connector.
TEST: for monitoring the picture connected to the TEST connector.

MODE selector

AUTO: the presence of burst activates the colour circuits ; absence of burst deactivates colour circuits.
COLOUR: colour circuits are activated regardless of the presence or absence of burst.
B/W: colour circuits are deactivated ; the picture will be displayed in black and white.

DELAY selector

NORMAL

H: picture is shifted horizontally, and the horizontal sync is displayed in left approximately one-fourth of screen.
 Picture brightness is automatically increased.

V: picture is shifted vertically, and the vertical sync is displayed near the centre of screen. Picture is expanded by approximately 5 times, unless the underscan is activated.

H/V: picture is shifted horizontally and vertically (cross-pulse).

SCAN select switch

Selects the normal scanning or under scanning. Under scanning reduces display size by about 10%.
 When this switch is set to UNDERSCAN, vertical sync expansion is cancelled.

SYNC select switch

EXT: when an external pulse is supplied from an external sync generator, with either composite or non-composite video signal.
INT: when composite video is supplied without external sync.

CONTRAST control*

Adjusts the picture contrast.

BRIGHTNESS control*
Adjusts the picture brightness.

COLOUR control*
Adjusts the colour intensity of the picture. Clockwise rotation makes the picture vivid; anticlockwise rotation makes it pale.

*The CONTRAST, BRIGHTNESS, COLOUR controls are recommended to be set nearly at their centre positions normally.

V SIZE control
Adjusts the picture height gains in the normal or underscanned picture respectively.

R/G/B SCREEN switches
These switches allow the appropriate beam to be turned on or off.

R/G/B BIAS controls

These controls provide screen adjustment for low-light colour temperature.

R/G/B GAIN controls

These controls provide screen adjustment for high-light colour temperature.

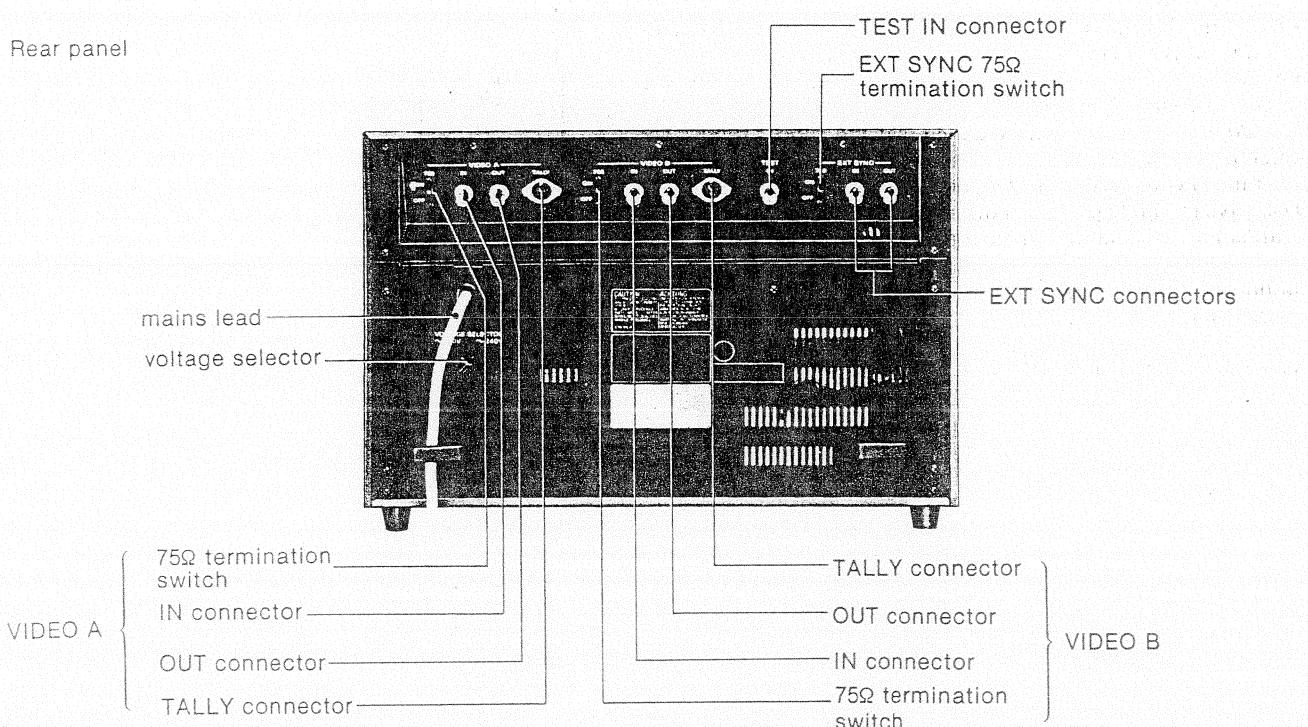
OPERATE/SETUP switch

Normally, set this switch to OPERATE. When this switch is set to SETUP, a horizontal white bar is displayed on the screen for adjusting the low-level white balance.

APERTURE control

Adjusts the frequency response.

Rear panel



VIDEO A/VIDEO B IN connectors

Connect to the video output of a video tape recorder or another monitor (for loop through connection), or to a colour camera.

OUT connectors

Connect the video input of another monitor or a video tape recorder.

75Ω termination switches

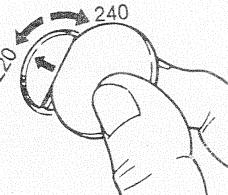
When the monitor is used singly, or is the last of looped chain, set the switch to ON. When another monitor is connected to the OUT connector, set the switch to OFF.

TALLY connectors

Connect to the tally output of the video console, special-effects generator, etc. Then the tally light feature of this monitor is utilized, and the tally lamp at the front will be turned on or off by the connected console or special-effects generator.

VOLTAGE selector

Selects the operating house current voltage, 220 V or 240 V ac.



EXT SYNC 75Ω termination switch

When an equipment is connected to the EXT SYNC OUT connector, set the switch to OFF. When not connected set to ON.

EXT SYNC connectors

Connect an external sync generator to the EXT SYNC IN connector. The OUT connector supplies the external sync signal from the external sync generator connected to the IN connector.

TEST IN connector

Connect the test signal.

SET UP

Scan Selection

Normal scanning or underscanning is achieved by the proper selection of the SCAN switch. Underscanning reduces display size by about 10%.

Delayed scanning is accomplished by the setting of the DELAY selector. When scanning is delayed vertically, horizontally or vertically and horizontally (cross-pulse), picture brightness is simultaneously increased for easier observation. Vertical scanning is expanded 5X to permit close inspection of the vertical interval.

White balance

- ① Connect a monoscope test signal and select the appropriate input.
- ② Turn on all R, G, B screen switches.
- ③ Set the BRIGHTNESS control to the mechanical centre and turn the CONTRAST control clockwise.
- ④ Adjust all R, G, B GAIN and BIAS controls to mechanical centre with a screwdriver.
- ⑤ To adjust low-level white balance, set the OPERATE/SETUP switch to SETUP to display a horizontal white line on the screen.
- ⑥ Adjust the R, G, B BIAS controls to obtain optimum white balance at 20 lux.
- ⑦ To adjust high-level white balance, set the OPERATE/SET UP switch to OPERATE.
- ⑧ Set the G GAIN control to the mechanical centre.
- ⑨ Observe the white portion of the screen and adjust the R, B GAIN controls for optimum white balance.

Confirm that optimum white is obtained at low-level to achieve proper tracking.

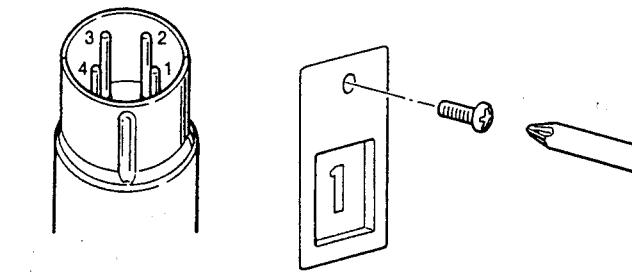
Repeat steps ⑥ - ⑨ if necessary.

Tally light

When the tally-light feature of this monitor is to be utilized, connect the TALLY connectors of the monitor to a console, special-effects generator, etc. with the No. 1 and 4 pins short-circuited. The tally lamp at the front is interlocked by the INPUT selector and will be turned on or off by the console or special-effects generator.

Remove the screw, replace the plastic number plate supplied and fasten with the original screw.

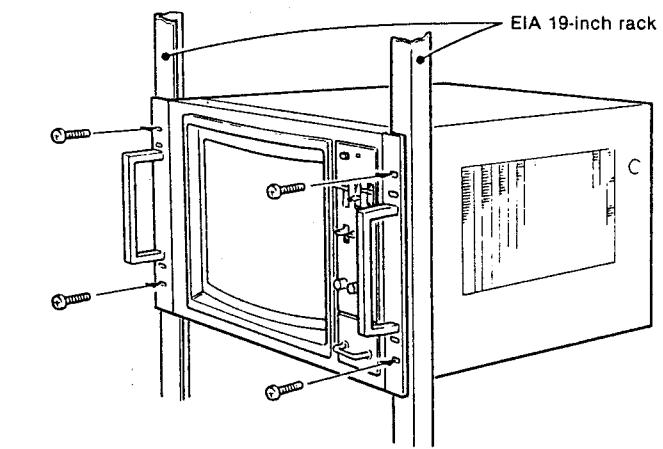
Pin connections
1 . . . Hot
4 . . . Ground



INSTALLATION

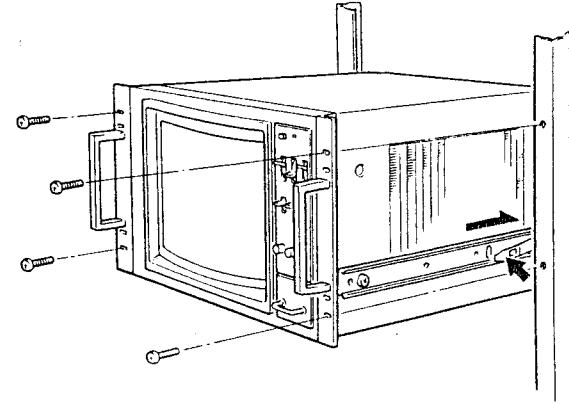
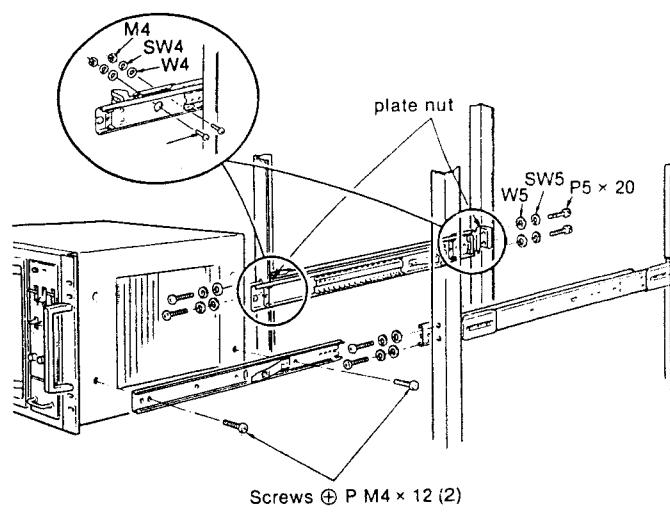
Be sure that the mains lead is disconnected from the mains outlet.

RACK MOUNTING



Mount the monitor to the 19-inch EIA standard rack and secure with four 5 x 16 machine screws.

SLIDE RAIL MOUNTING (optional)

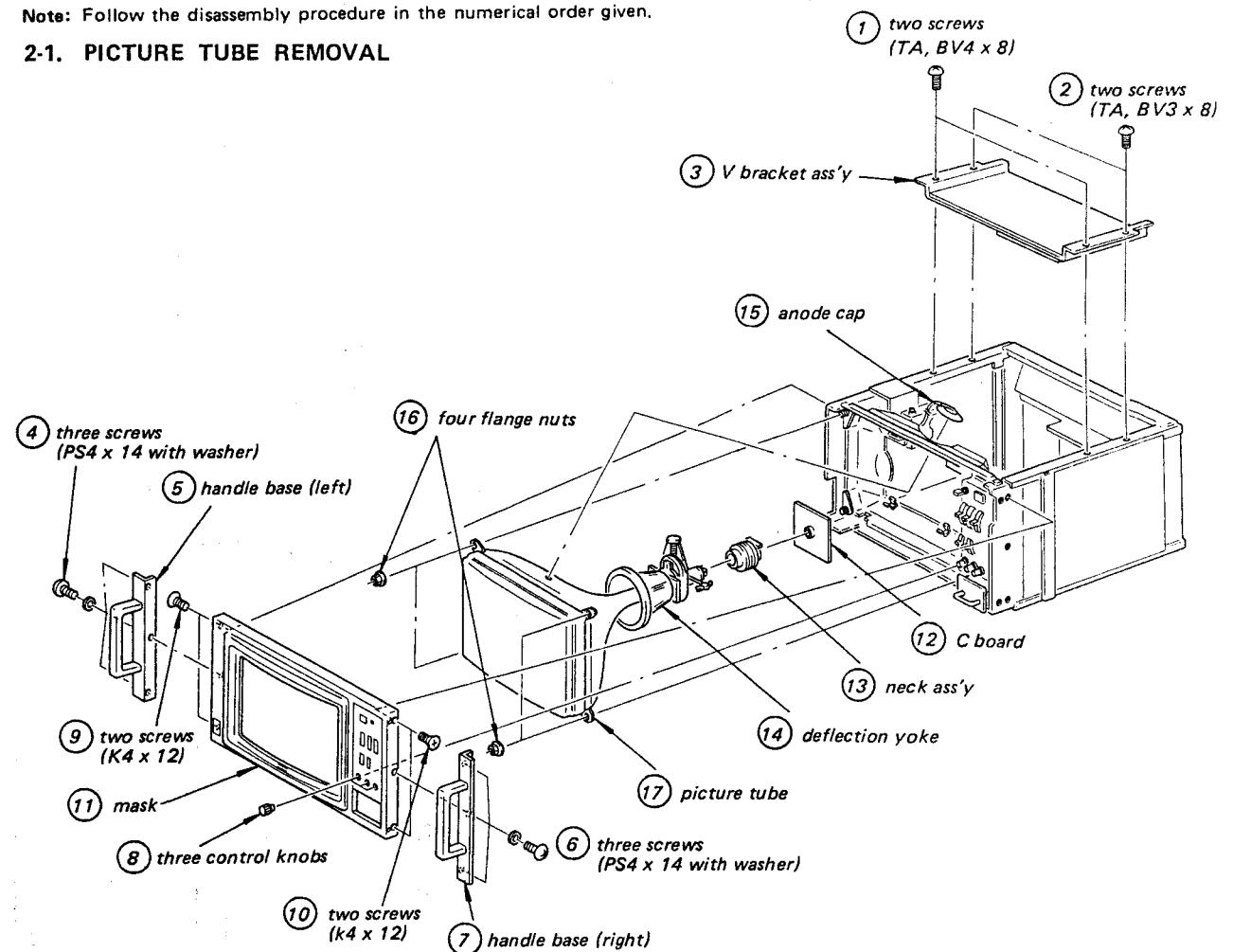


SECTION 2

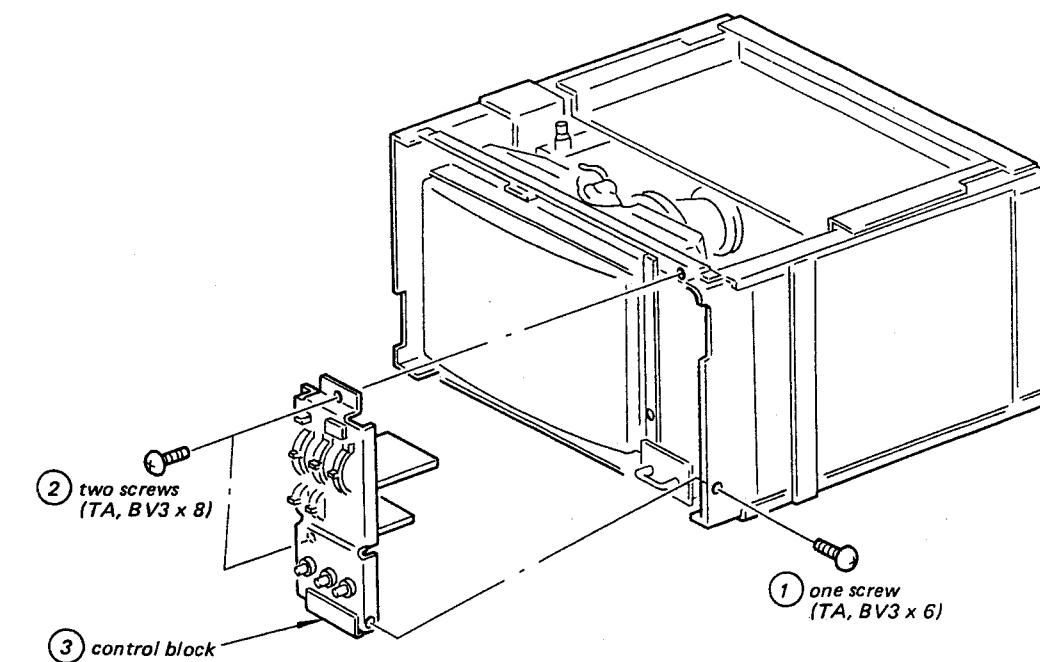
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

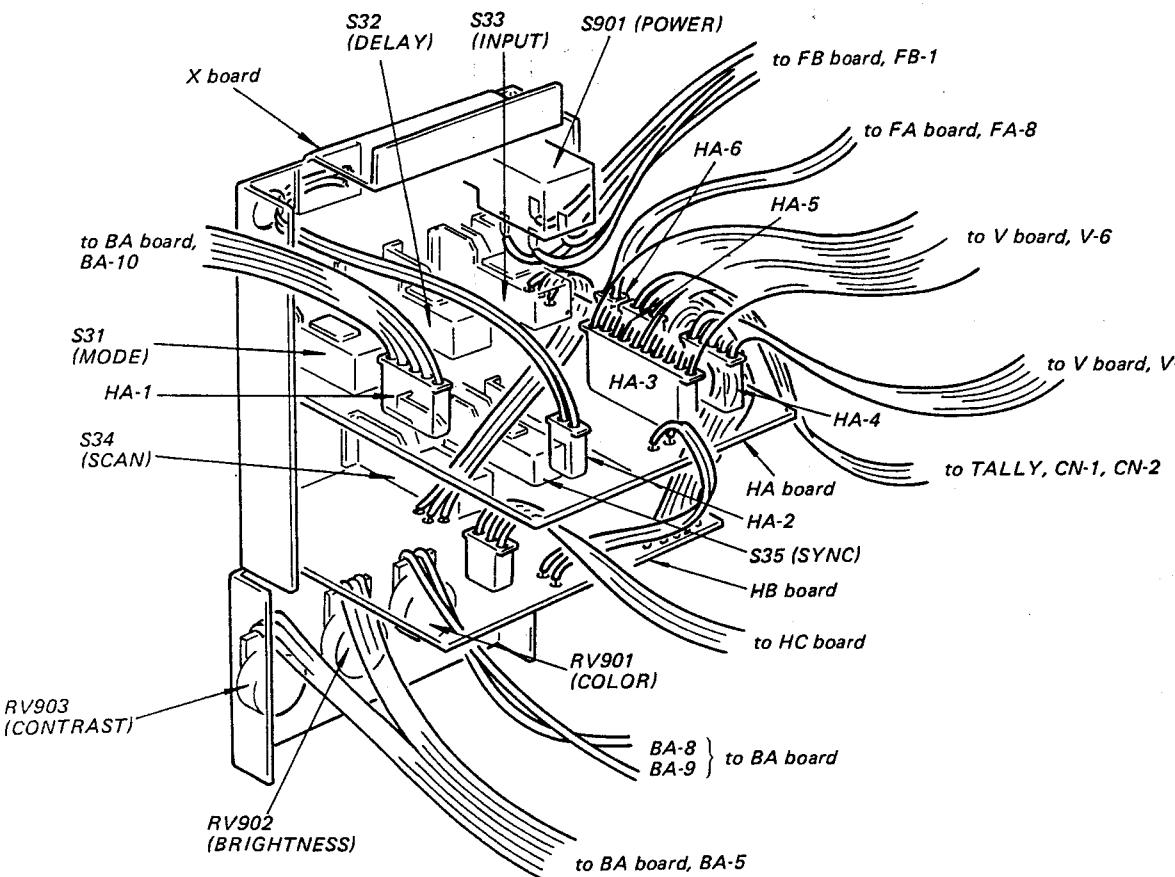
2-1. PICTURE TUBE REMOVAL



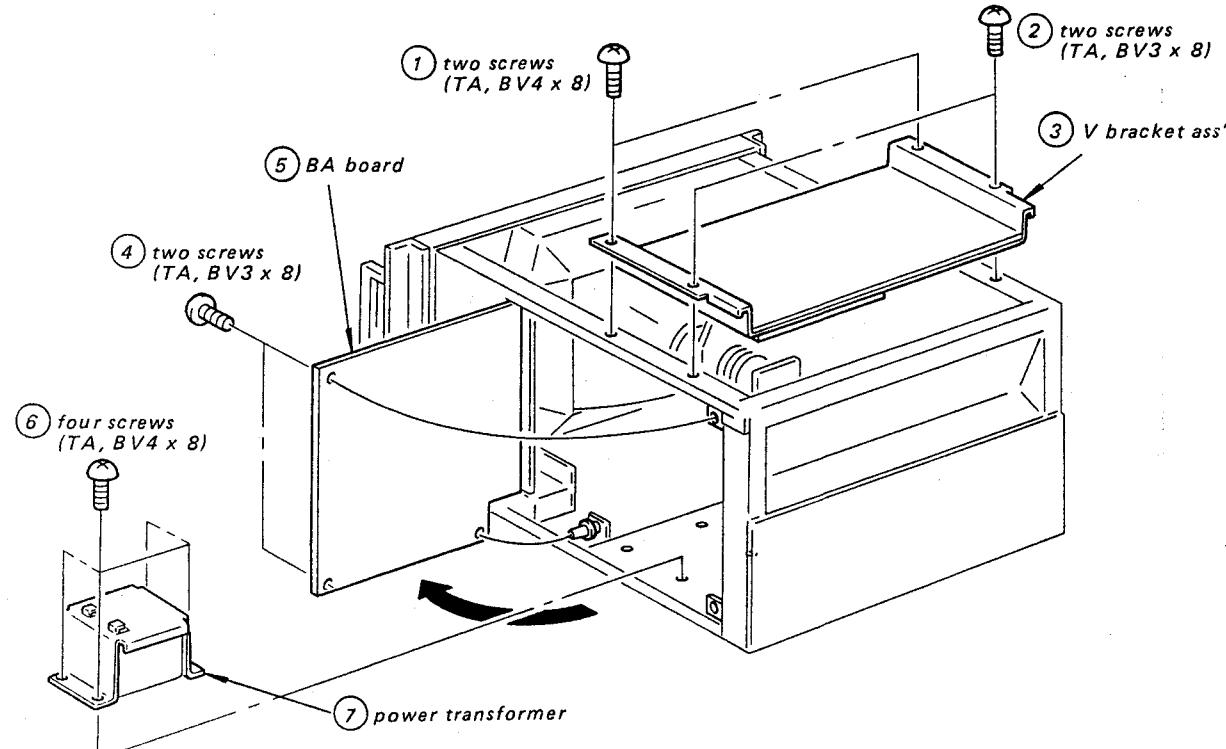
2-2. CONTROL BLOCK REMOVAL



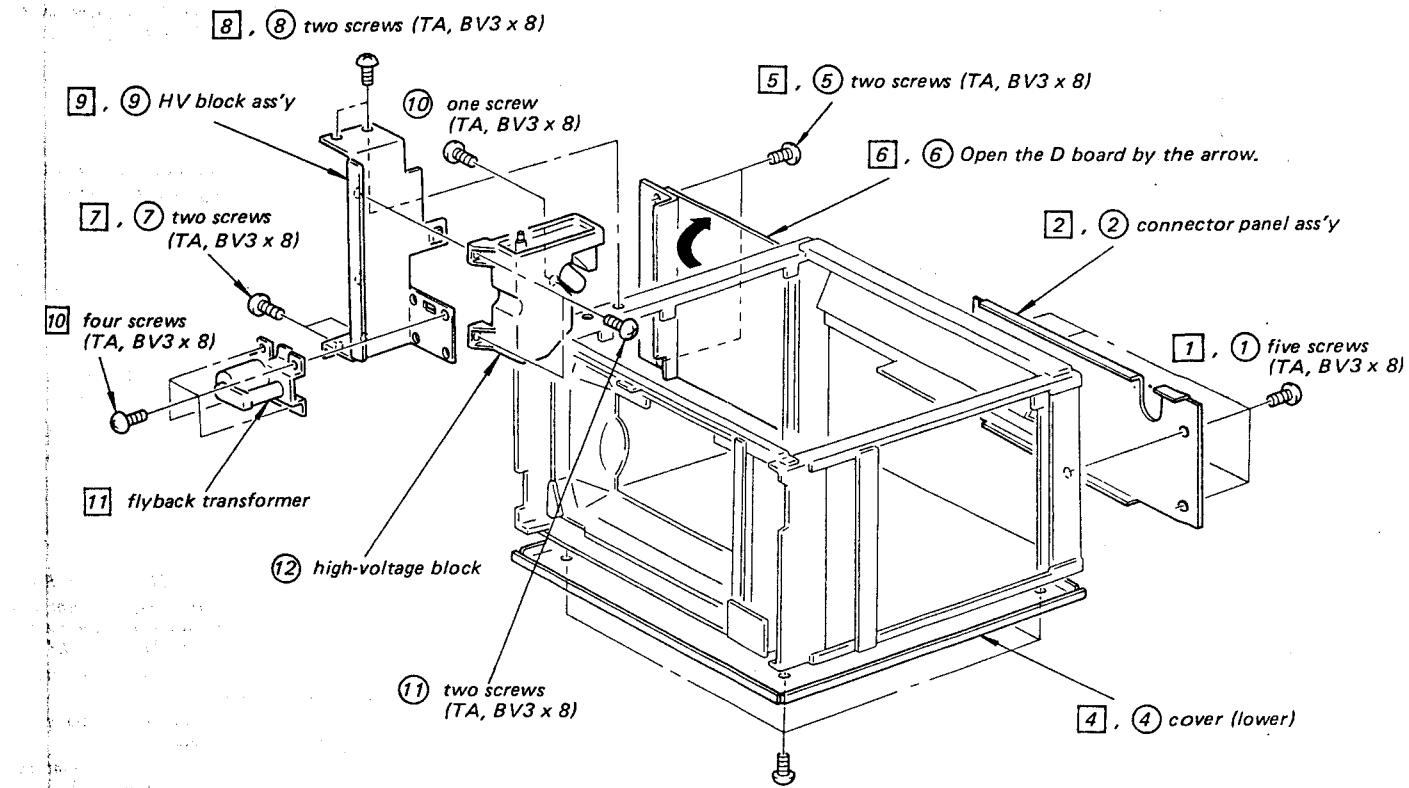
2-3. WIRING DIAGRAM ON CONTROL PANEL



2-4. POWER TRANSFORMER REMOVAL

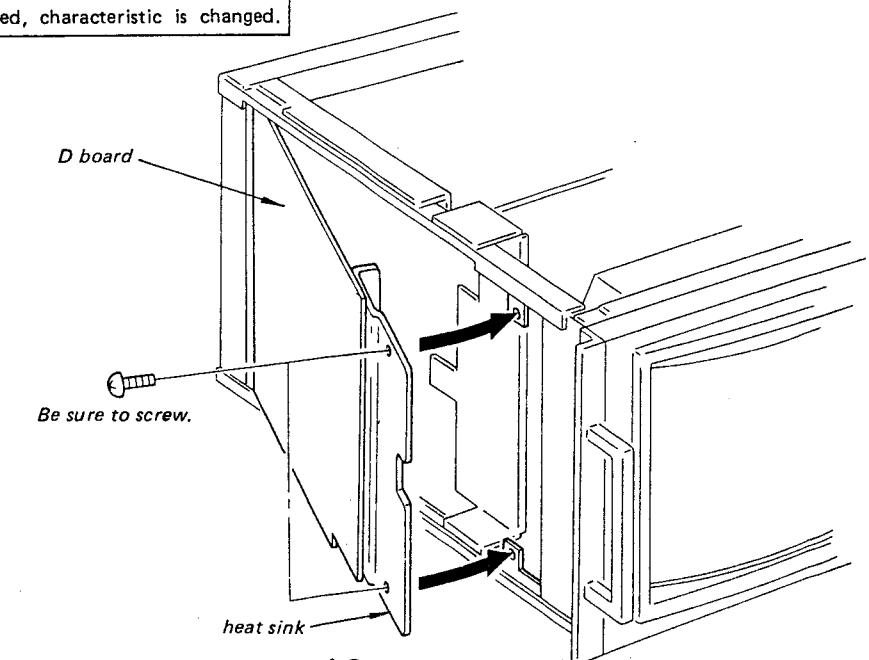
2-5. • HIGH-VOLTAGE BLOCK
• FLYBACK TRANSFORMER } REMOVAL

Note: High-voltage block: Remove the parts indicated by **○** in numerical order (1 - 12).
Flyback transformer: Remove the parts indicated by **□** in numerical order (1 - 11).



2-6.

CAUTION
Be sure to perform that heat sink of D board is screwed to chassis before power switch is turned on. If not, earth loop of deflection circuit is changed, characteristic is changed.



Note:

(1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Dual-trace oscilloscope
3. Voltmeter (VOM)
4. Color-bar/pattern generator
5. Video tuner SONY Model "VTU-200" or equivalent
6. Digital multimeter
7. High tension meter.

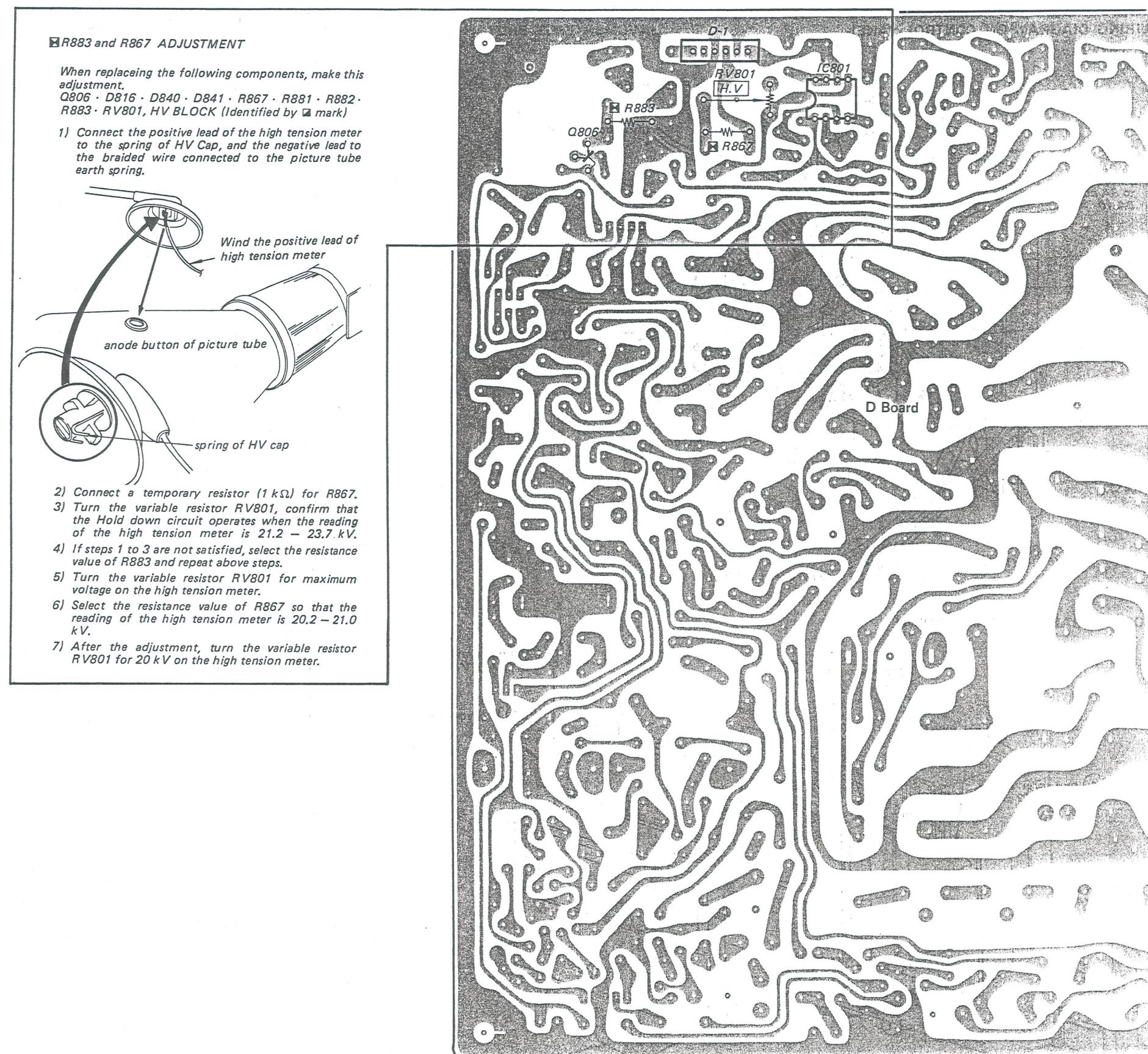
(2) INPUT SIGNAL

When making these adjustments, feed a crosshatch, color-bar or monoscope pattern, signal to VIDEO IN/OUT connector through video tuner.

(3) CONTROL AND SWITCH SETTINGS

Controls and switches should set as follows when making adjustments unless otherwise noted.

CONTR control	} . . . Set for best picture
BRT control	
COLOR control	. . . Set for stable picture
V.HOLD control	
MODE switch	. . . AUTO
SCAN switch	. . . NORMAL

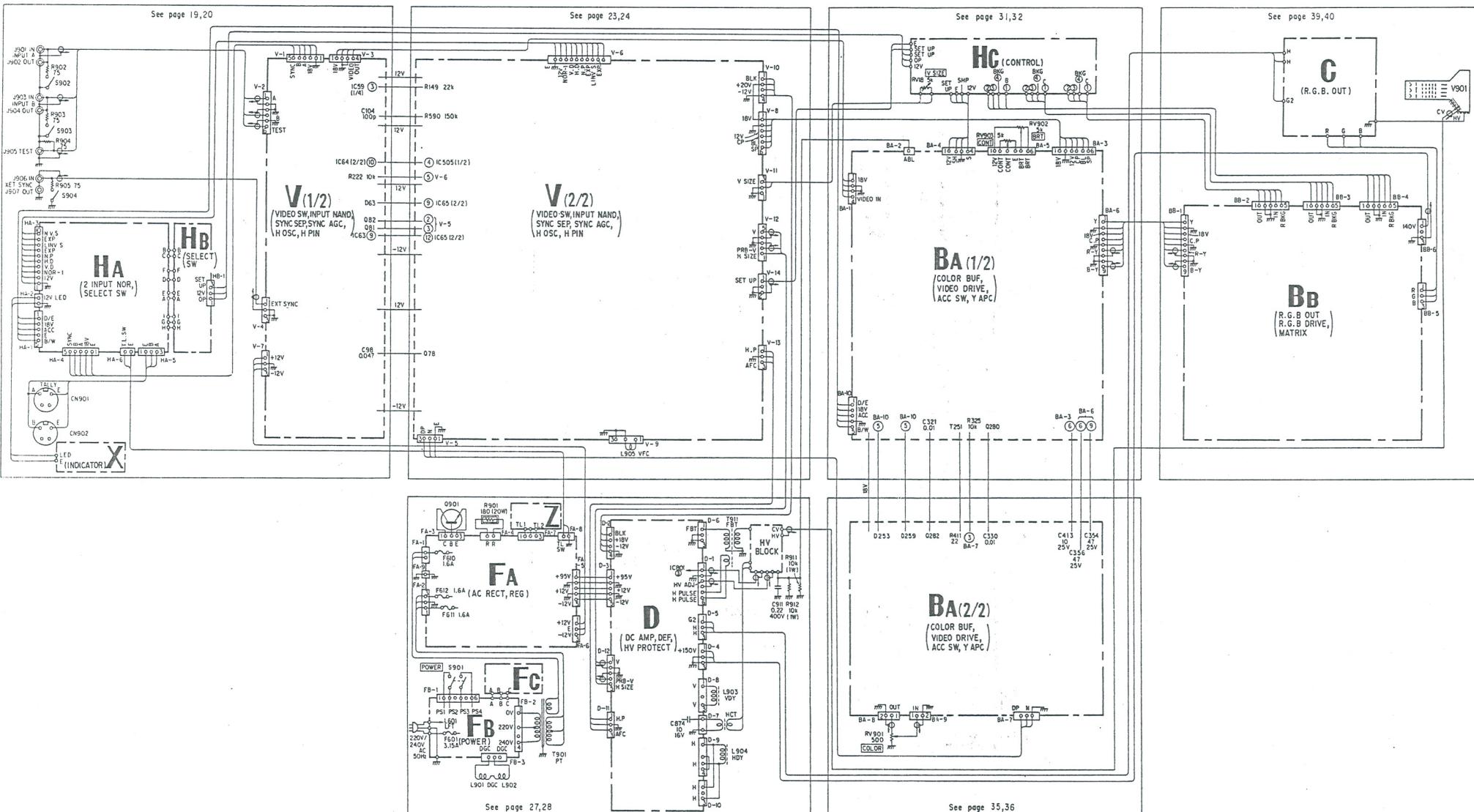


SECTION 4
DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM

A | B | C | D | E | F

1



2

3

4

5

4-2. MOUNTING AND SCHEMATIC DIAGRAMS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F}$
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted.
- $\text{k}\Omega$: $1000\ \Omega$, $\text{M}\Omega$: $1000\ \text{k}\Omega$
- : nonflammable resistor.
- : internal component.
- : panel designation.

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R883 and R867 adjustment on page 13 and 14).

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
Q806, D816, D840 D841, R867, R881 R882, R883, RV801	R883 and R867 adjustments

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a $10\ \text{M}\Omega$ digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Voltages are taken with the MODE switch set at AUTO position.
- No parens: common value.

	SCAN Sw.	DELAY Sw.
< > :	ON	NORMAL
<< >> :	ON	H
() :	ON	V
(()) :	ON	H/V
[] :	OFF	NORMAL
[[]] :	OFF	H
< > :	OFF	V
[] :	OFF	H/V

- : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Switch

Ref. No.	Description	Position
S11	SCREEN R	ON
S12	SCREEN G	ON
S13	SCREEN B	ON
S14	OPERATE/SET UP	OPERATE
S31	MODE	AUTO
S32	DELAY	NORMAL
S33	INPUT	CH-A
S34	SCAN	ON
S35	SYNC	INT
S601	VOLTAGE SELECT	220 V
S901	POWER	ON
S902	CH-A 75 Ω	OFF
S903	CH-B 75 Ω	OFF
S904	EXT SYNC 75 Ω	OFF

V 1/2 SYNC SEP, SYNC AGC,
H OSC, H PIN

HA [2 INPUT NOR,
SELECT SW]

HB (SELECT SW) X (INDICATOR)

A

B

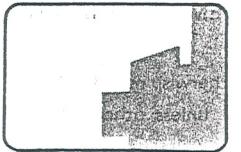
C

D

E

F

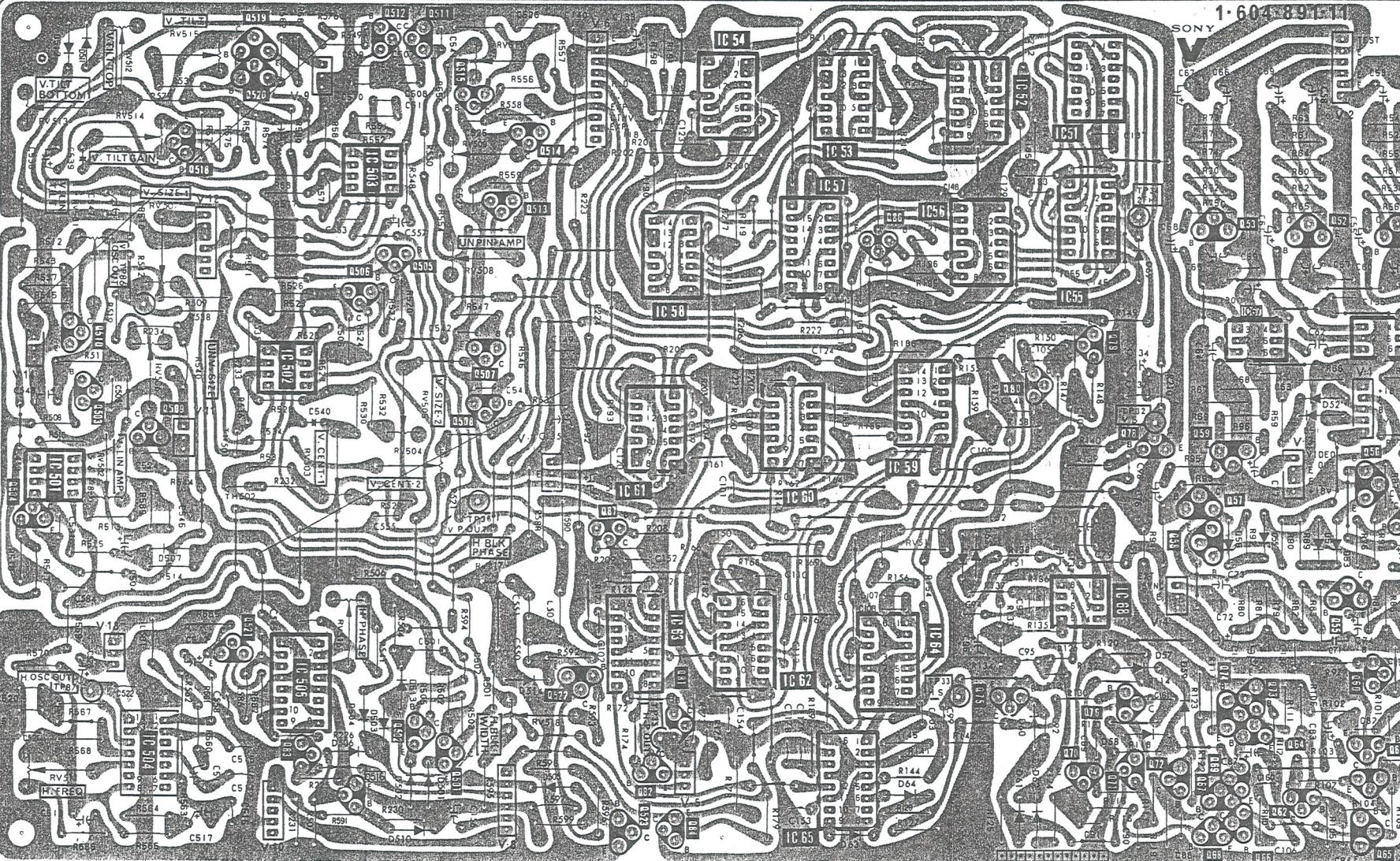
G



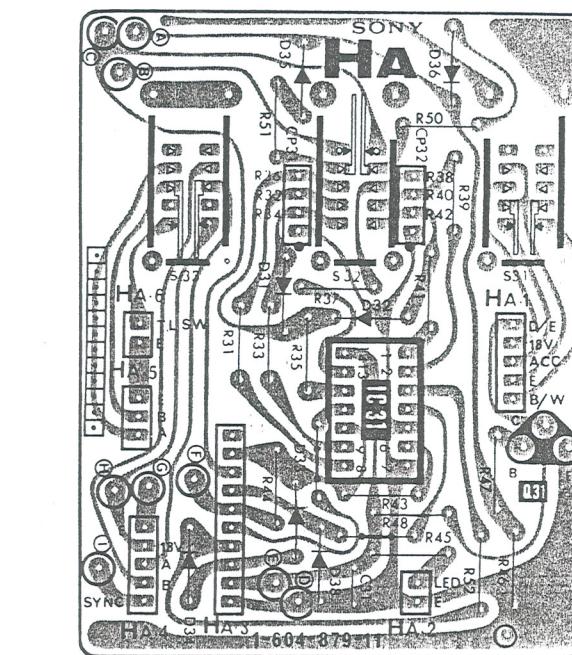
- V 1/2 Board -

Q	504	510	503	518	519	IC502	512	511	515	513	514	IC58	IC54	IC53	IC52	IC56	IC51	IC55	53	59	73	52	51	Q			
IC	IC501	IC504	509	520	IC505	506	IC503	505	507	508	516	522	87	IC61	81	IC62	IC60	IC65	IC64	75	79	76	57	56	IC66		
D	512	511	507	504	513	502	501	510	514	505	506	503	507	504	511	63	64	66	65	60	61	62	59	58	55	54	53

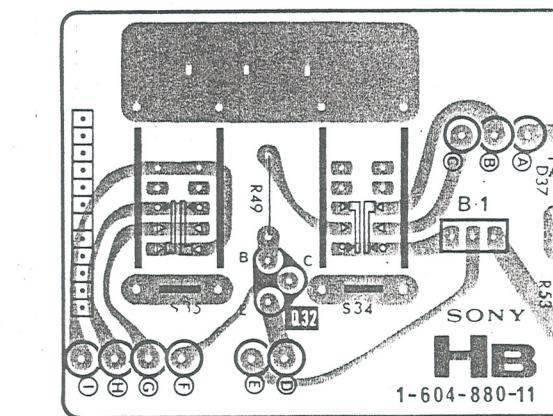
ADJ RV513 RV512 RV507 RV515
RV511 RV502 RV506 RV503 RV505 RV509 RV510
RV514 RV504 RV516 RV518 RV508 RV517 RV51



- HA Board -



- HB Board -



- X Board -



V 1/2 [VIDEO SW, INPUT NAND
SYNC SEP, SYNC AGC,
H OSC, H PIN]

HA [2 INPUT NOR,
SELECT SW]

HB (SELECT SW) **X** (INDICATOR)

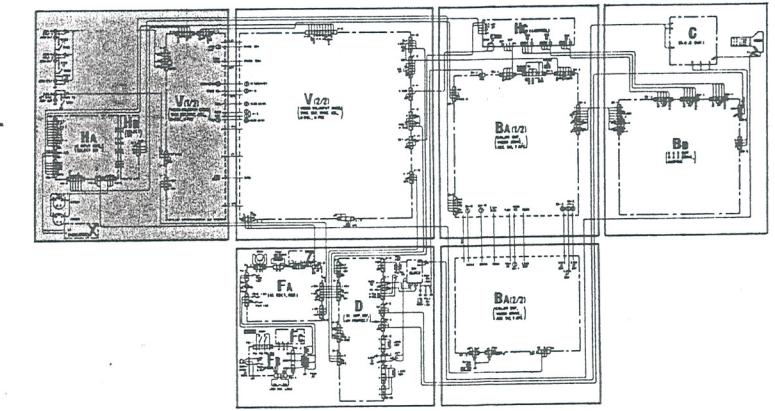
A

B

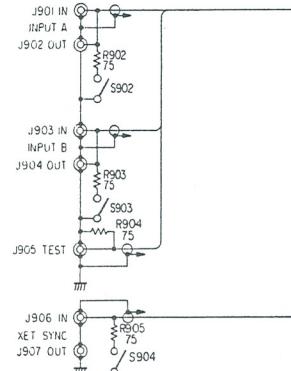
C

D

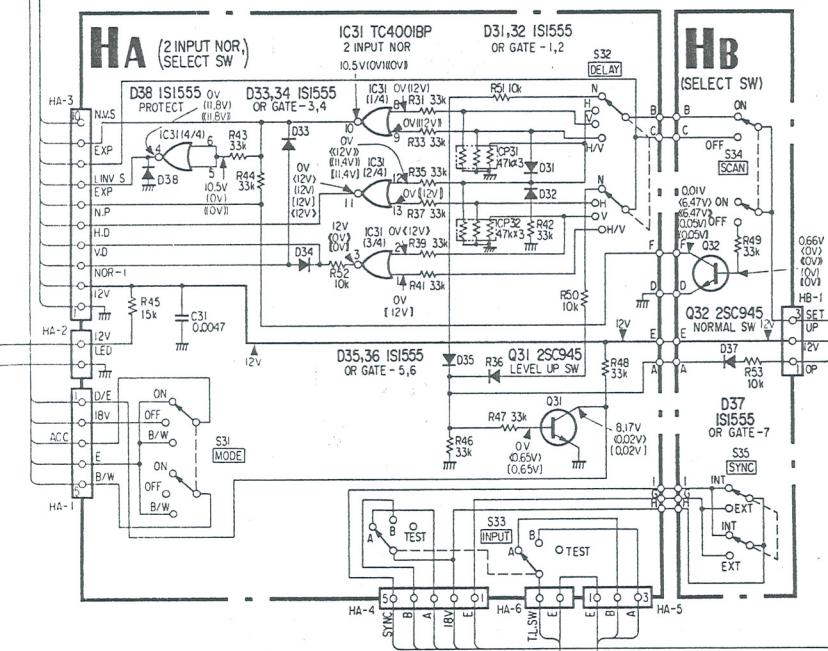
E



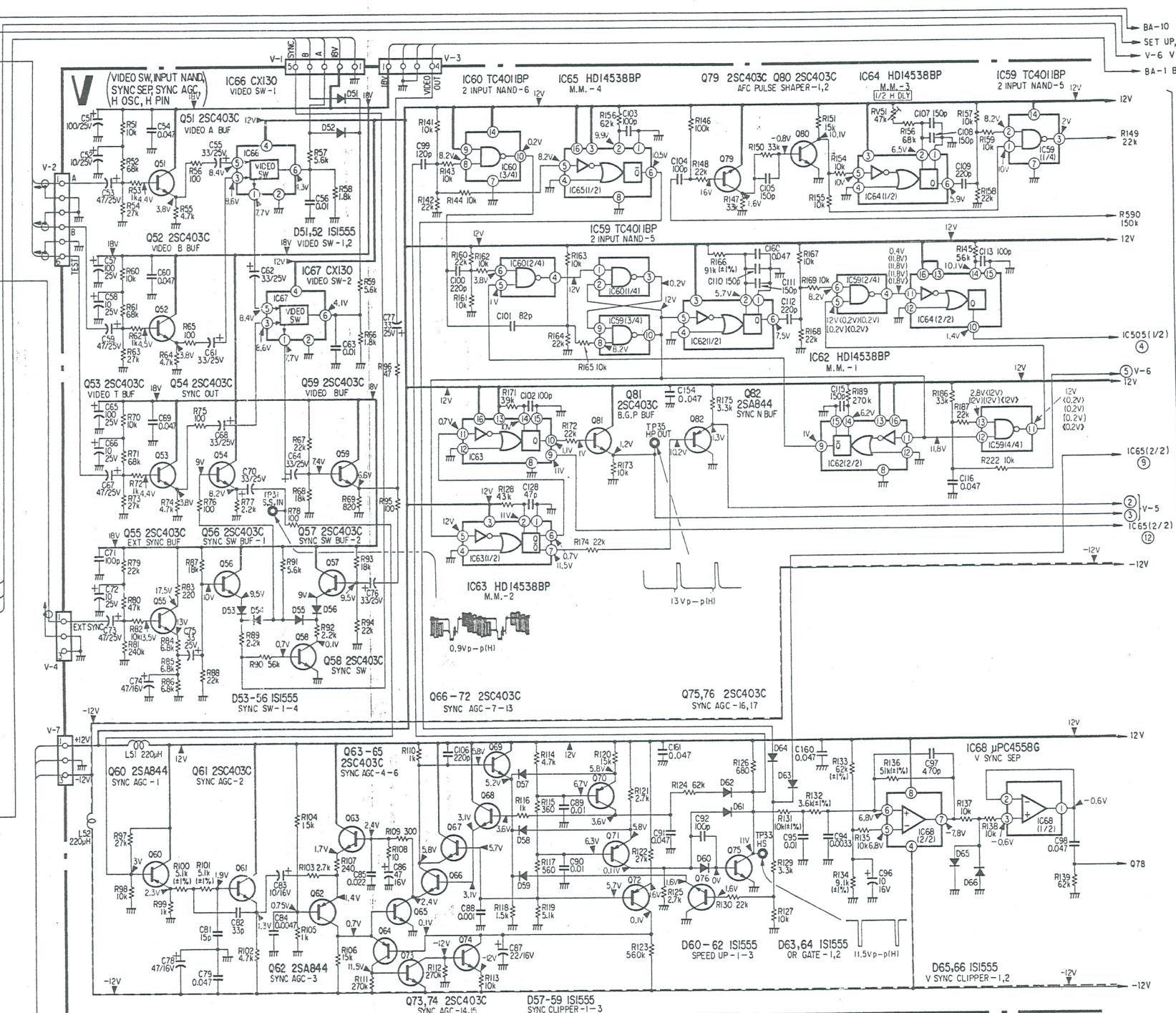
1



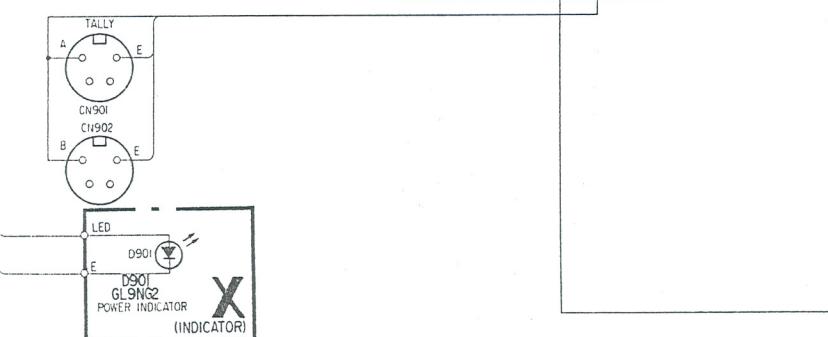
2



3



4



5

To page 31, 32 BA-10 BA (1/2)Board
SET UP, OP, 12V HC Board
V-6 V(2/2) Board To page 23, 24
BA-1 BA(1/2)Board To page 31, 32

A

B

C

D

E

F

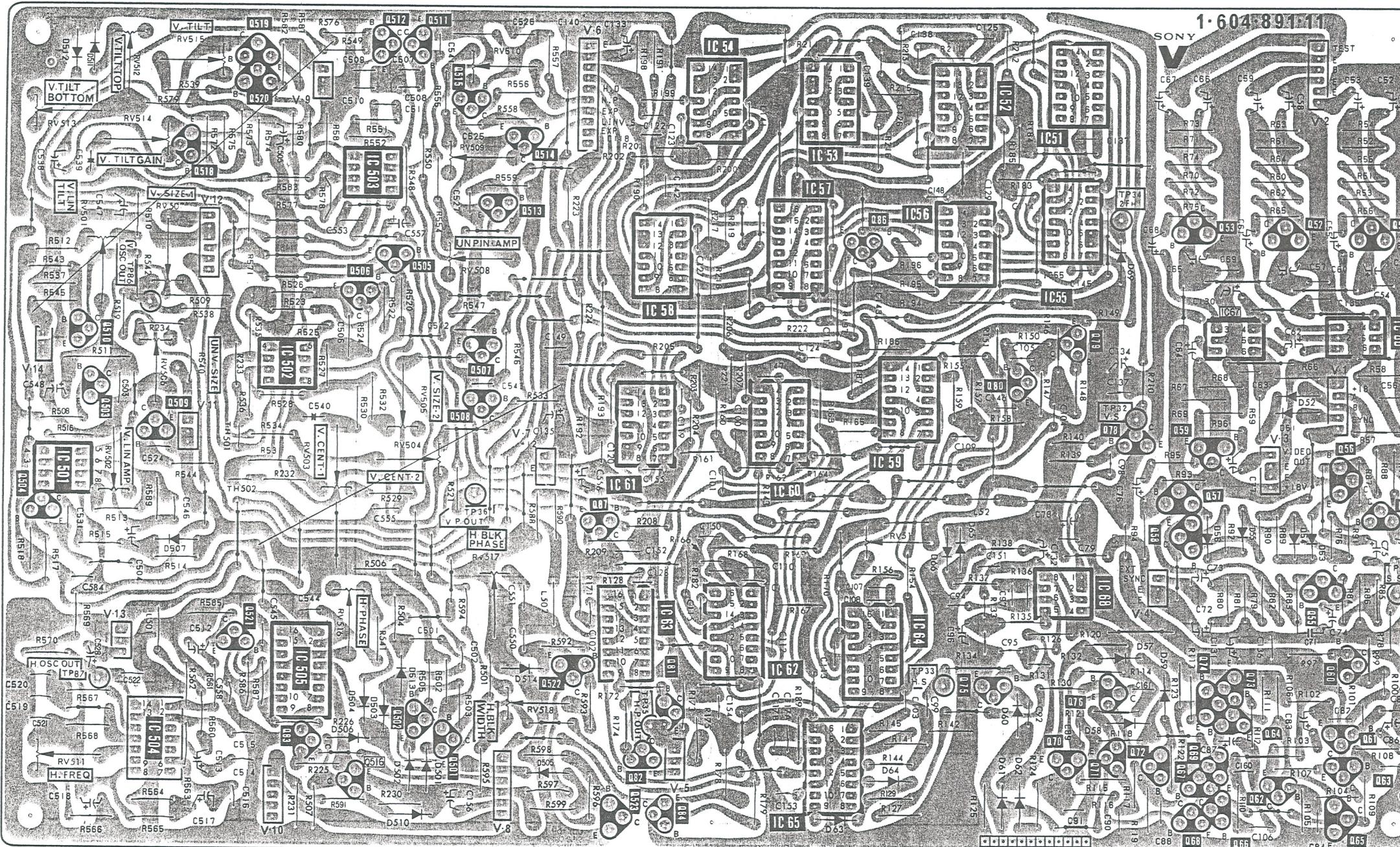
G

- V 2/2 Board -

1

Q	504	510	503	518	519	IC502	512	511	515	513	514	IC58	IC54	IC53	IC57	86	IC59	IC52	IC56	75	IC68	79	78	53	59	73	52	51	Q												
IC	IC501	IC504	520	509	520	IC505	506	IC503	505	507	508	522	87	IC61	81	IC60	IC62	IC65	IC64	IC63	523	IC63	84	IC62	IC65	IC64	70	71	72	67	69	64	IC67	62	55	56	60	54	63	65	IC
D	512	511				504	513	502	501															69				52	51				D								
ADJ	RV513	RV501	RV512	RV507	RV515	RV511	RV514	RV502	RV506	RV503	RV505	RV510	RV509	RV518	RV508	RV517	RV516	RV504	RV503	RV516	RV504	RV509	RV510	RV508	RV517	RV51						ADJ									

2



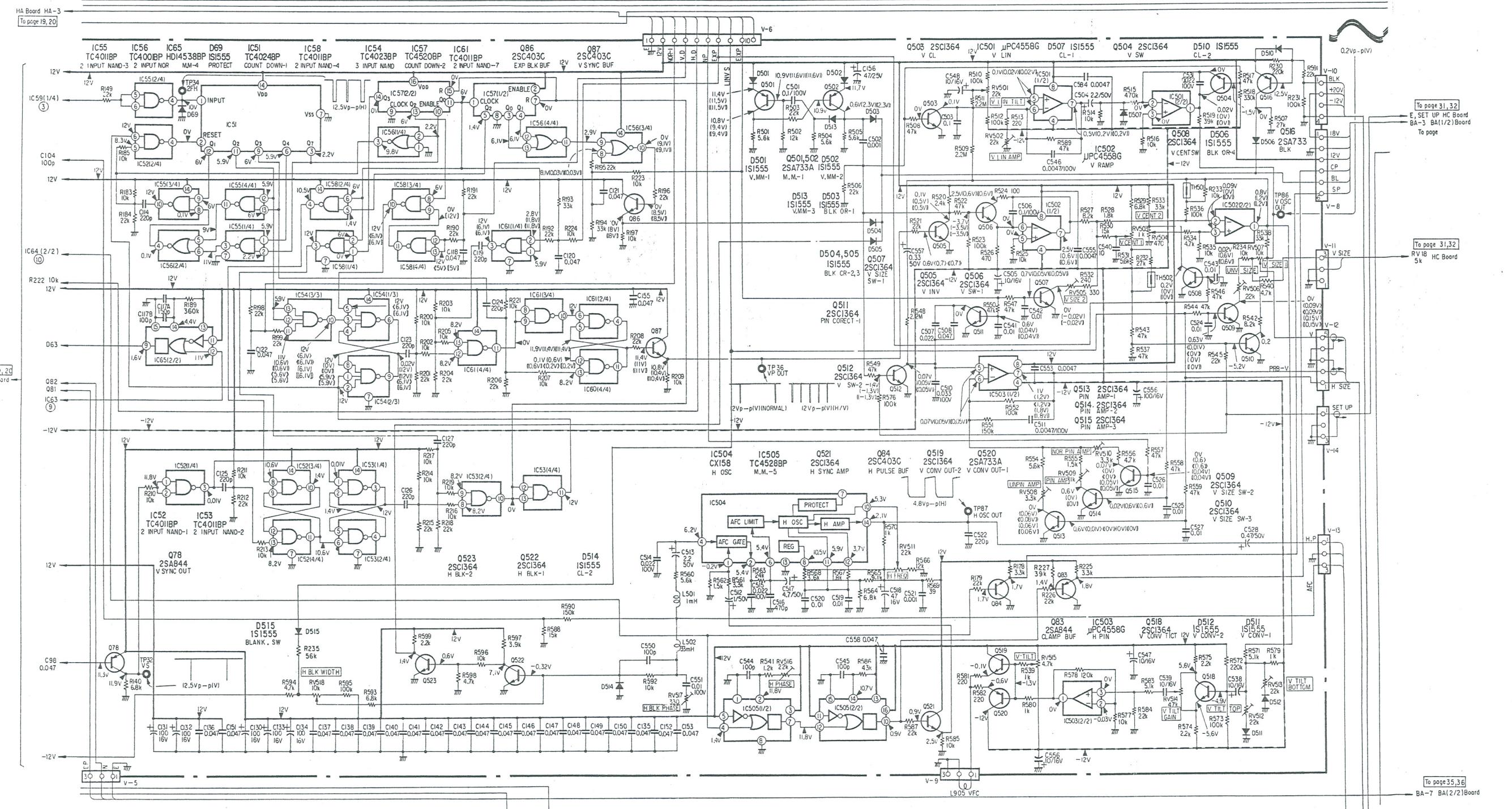
1

2

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4

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A

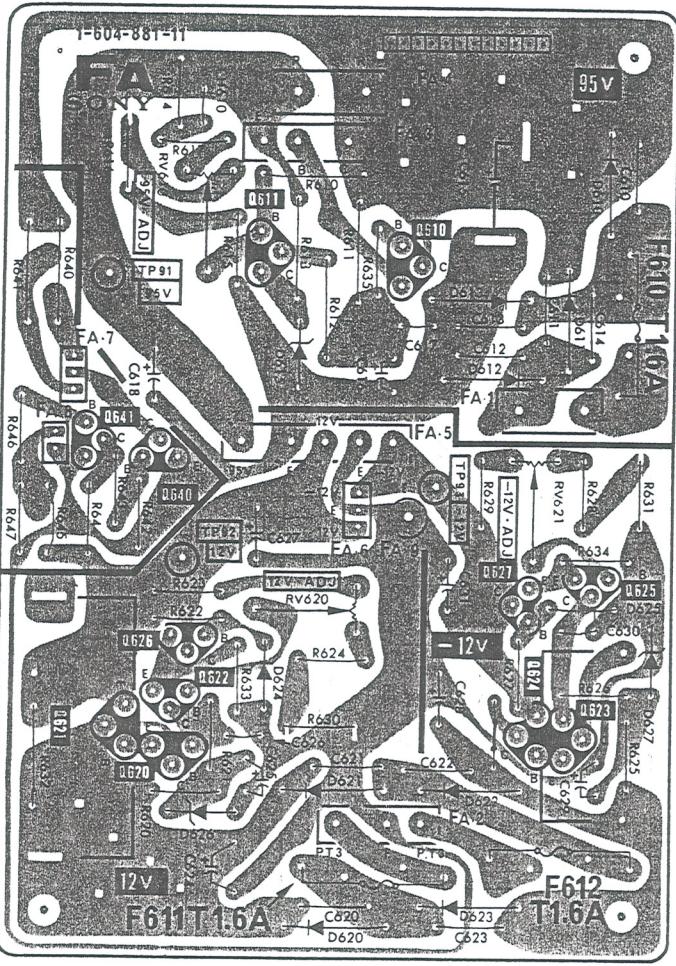
B

8

四

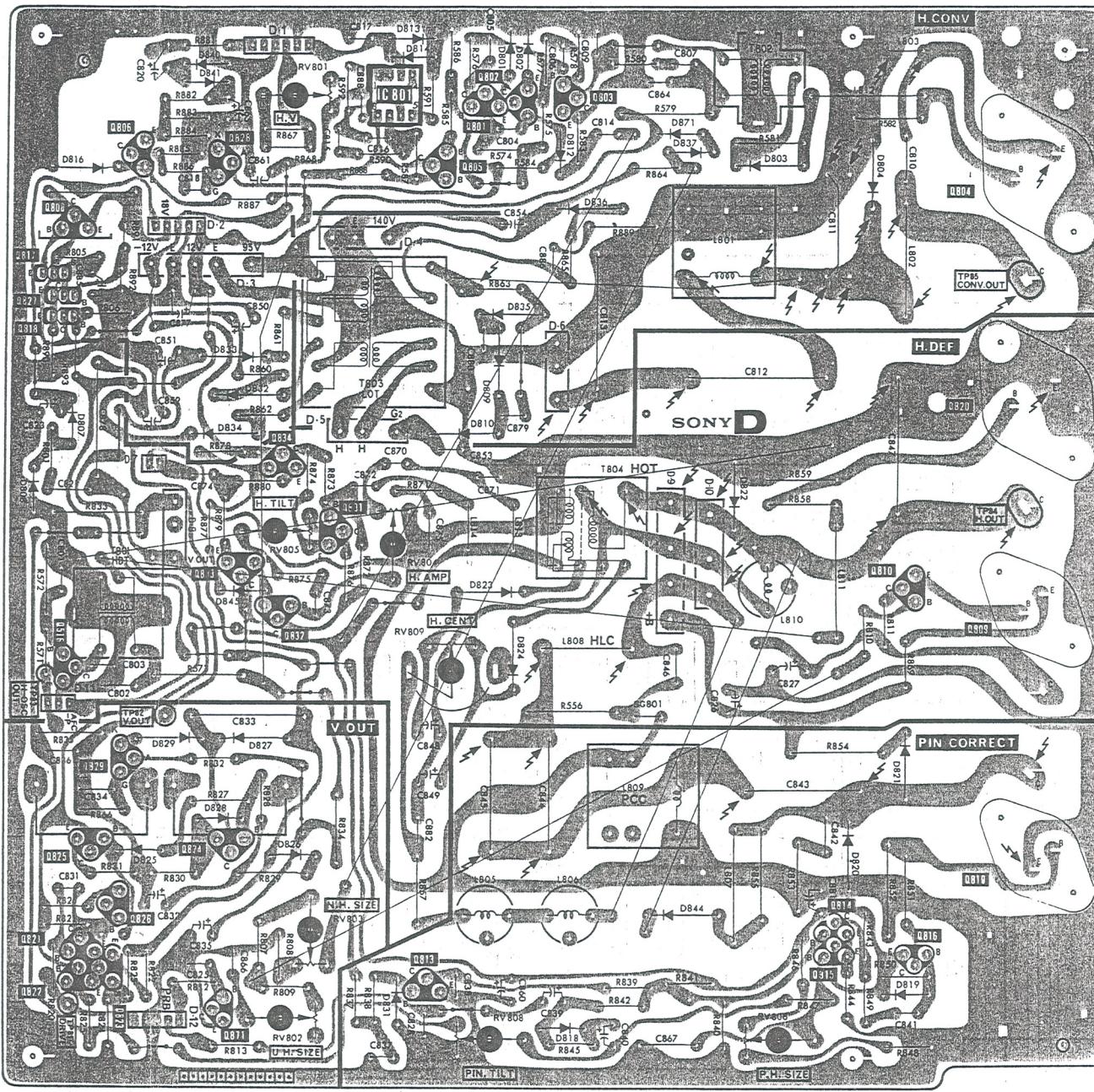
6

— FA Board —



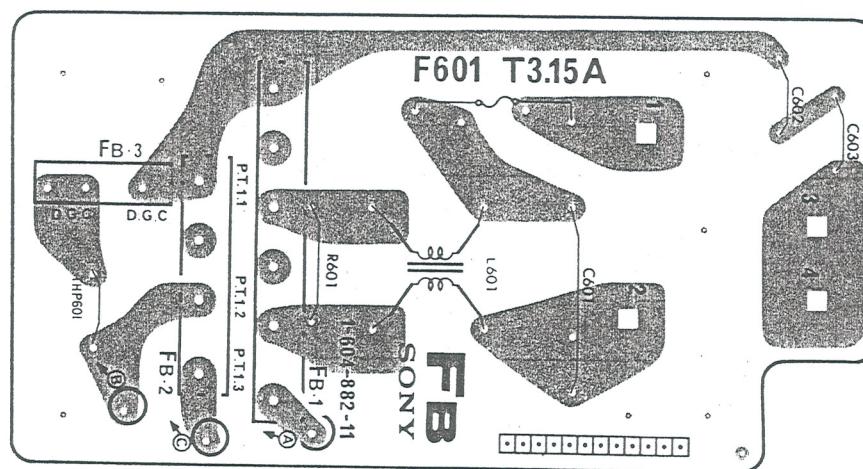
Q, IC	D	ADJ
	610	
611	610	RV610
	613	
	611	
	615	
	612	
641	640	
		RV621
	625	
627	625	RV620
626	627	
	624	
622		
621	624	
624	623	
623	620	
	622	
	626	
	623	
	620	

— D Board —

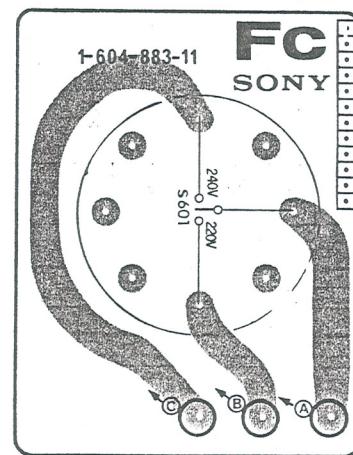


Q, IC	D	ADJ
	813 801 802 814 840 841	
IC801 801 802 803		RV801
	871	
806 828 805	812 837 816 803	
	804	804
		836
808		
817		
827		
818	835	
	833 809	
820	832 807 834 810	
834		
	808 822	
831		RV805 RV804
833		
810	845 823	
832		
809		
516	824	RV809
	829 827 821	
829		
	828	
825 824	820 825 826	
	819	
826		
	814	844
821 815 816 823		RV803
822 813	819 831	
871	818	RV802
		RV808 RV80
Q, IC	D	ADJ

– FB Board –



– Fc Board



- 7 Board



F A (AC RECT, REG) **F B** (POWER) **F C** **D** (DC AMP, DEF. HV PROTECT) **Z**

A

B

C

D

E

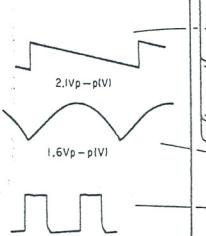
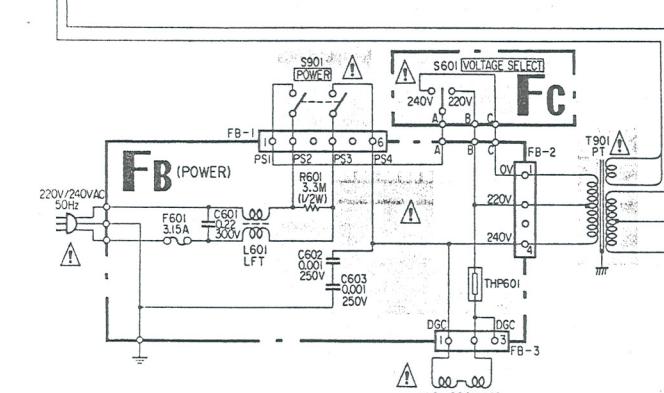
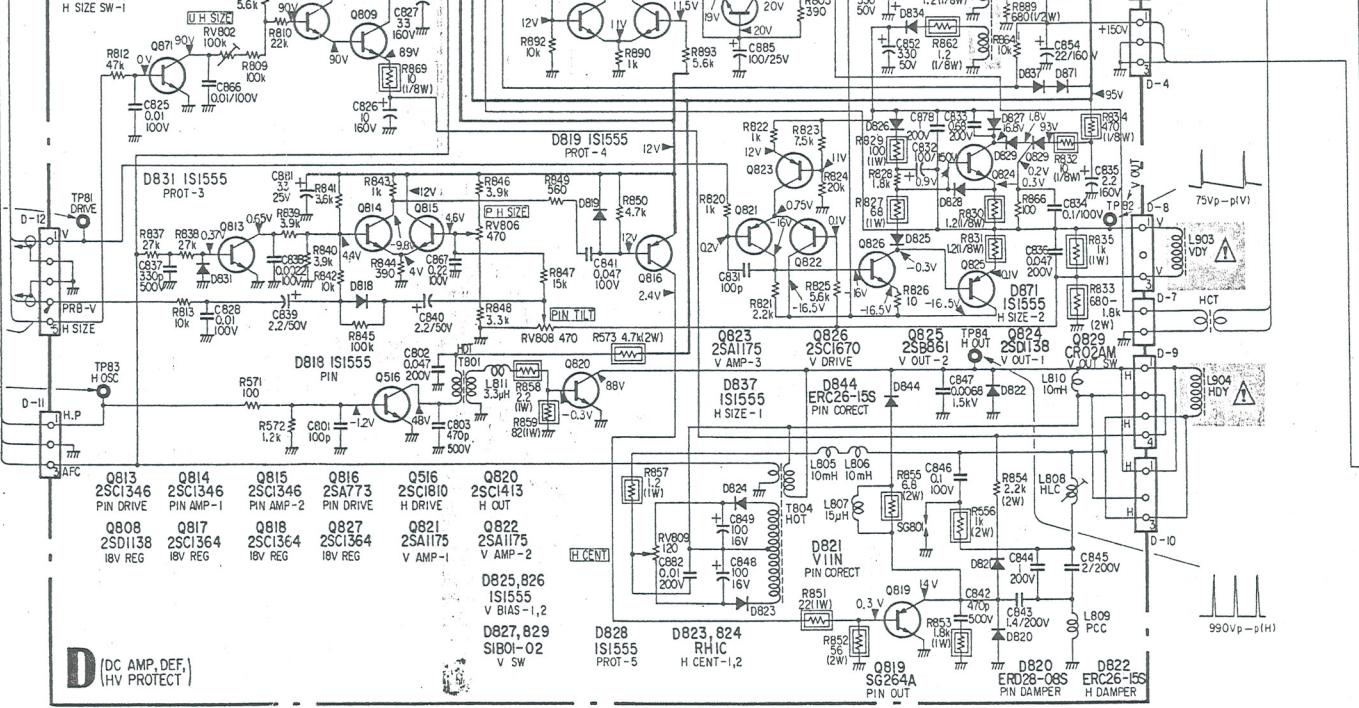
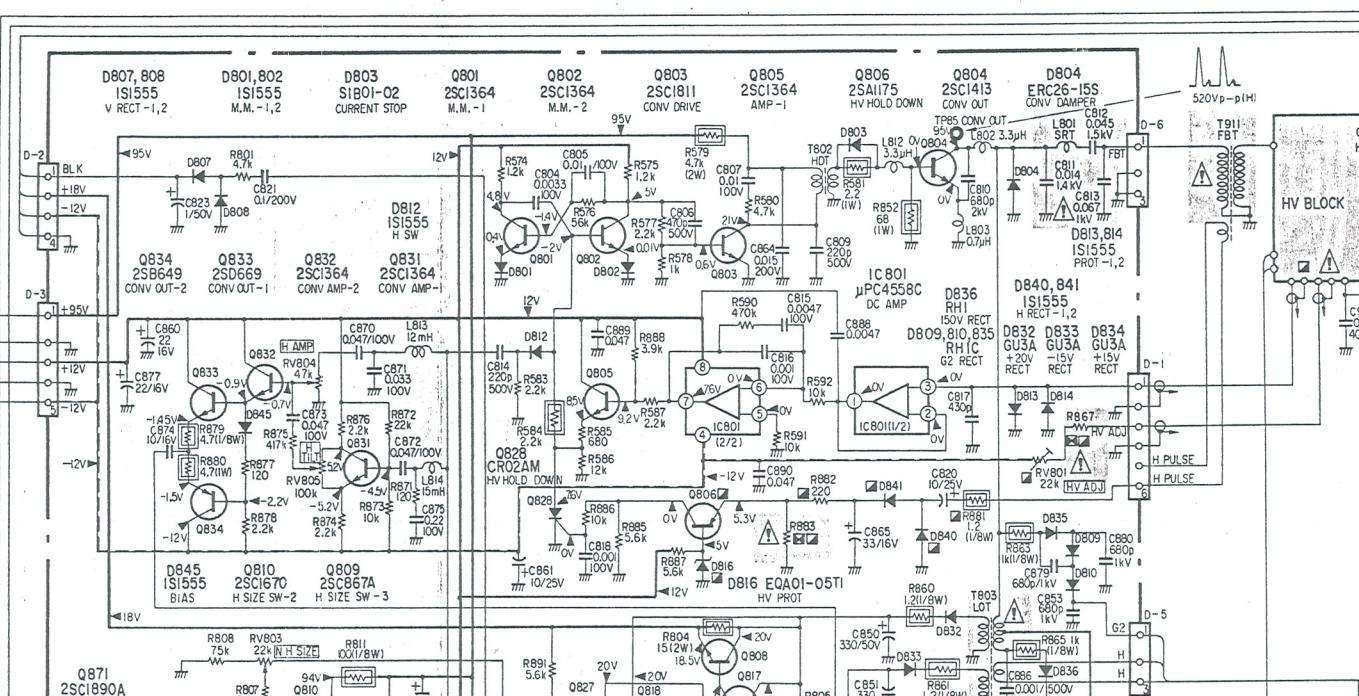
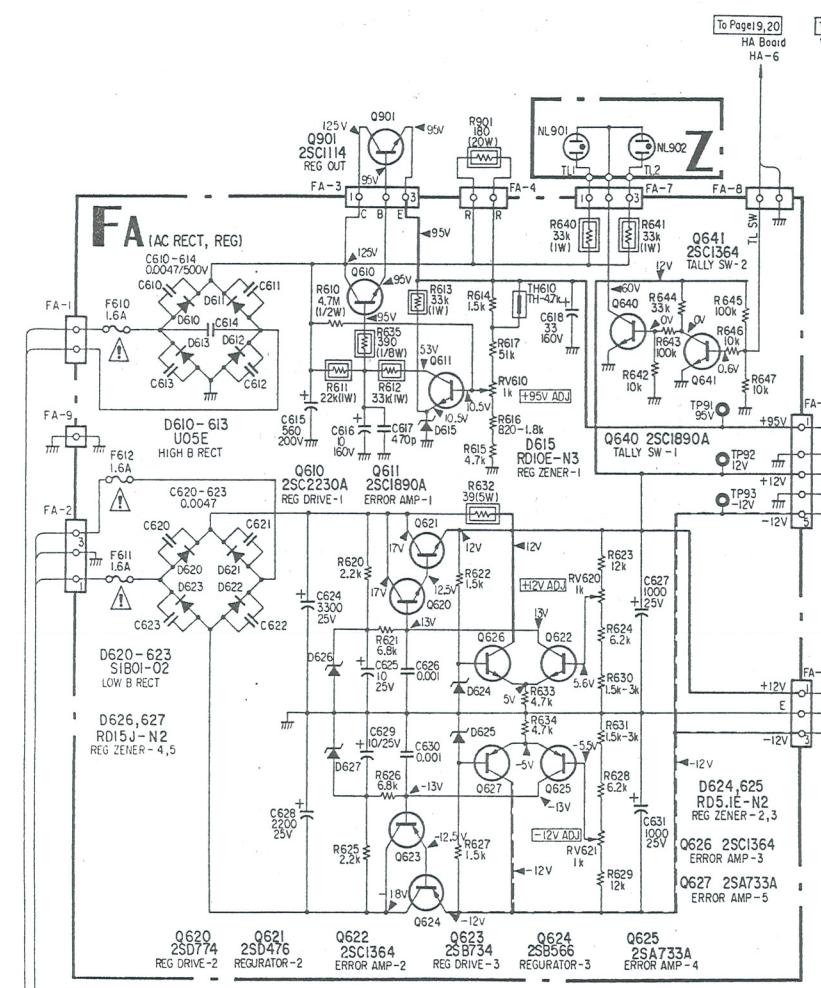
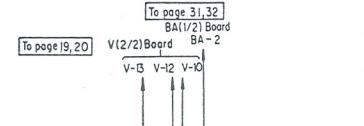
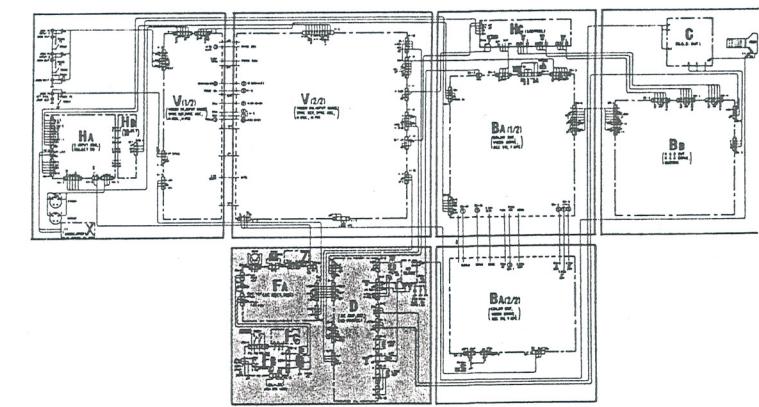
Note: • The components identified by **█** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• When replacing components identified by **█**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **█** and repeat the adjustment until the specified value is achieved. (Refer to R883 and R867 adjustment on page 13 and 14.)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (█)	Adjustment (█)
Q806, D816, D840 D841, R867, R881 R882, R883, RV801 HV BLOCK	R883 and R867 adjustments

Note: The components identified by shading and mark **█** are critical for safety. Replace only with part number specified.



D (DC AMP, DEF. HV PROTECT)

A

B

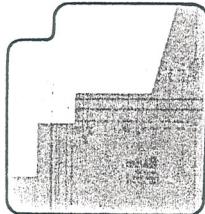
C

D

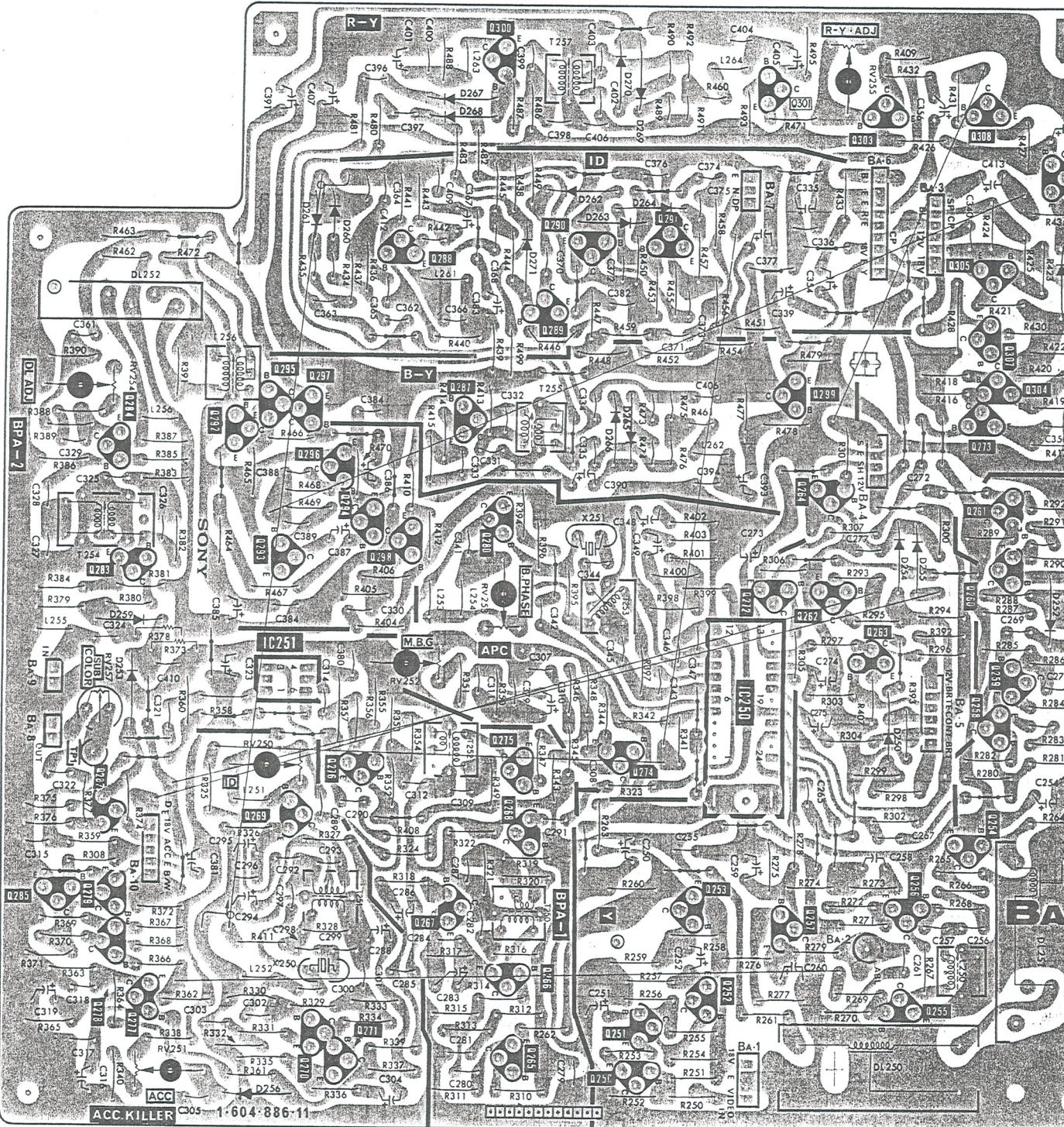
E

F

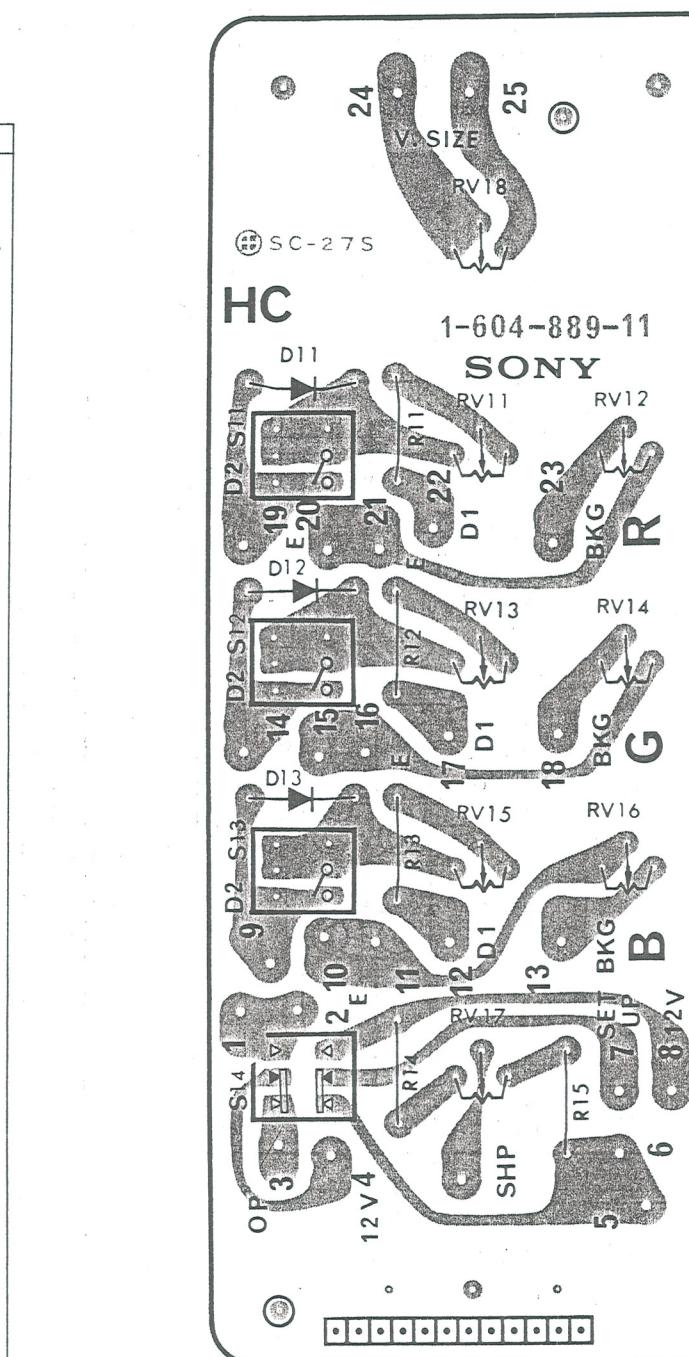
G



- BA 1/2 Board -



Q, IC	D	ADJ
300	270	RV255
301	269	
303	267	
308	268	
306	262	
	264	
	260	
	261	
290	263	
288	271	
305	257	
289		
307		
304	299	
295	297	RV254
297	273	
292	265	
284		
296	264	
	261	
294	280	
298	254	
293	260	
283	251	RV253
	252	
272	262	
274	259	
263		
IC251	259	RV252
IC250	253	RV257
	258	
274	250	RV250
276	275	
282	269	
	268	
	254	
285	279	
267	253	
256	256	
257		
278		
266		
277	252	
255	255	
251		
270	251	
271	265	RV251
	250	
256		
Q, IC	D	ADJ



BA 1/2 [COLOR BUF
VIDEO DRIVE
ACC SW, Y APC]

Hc (CONTROL)

SCC-363A-A

PVM-1320P PVM-1320P

SCC-363A-A

A

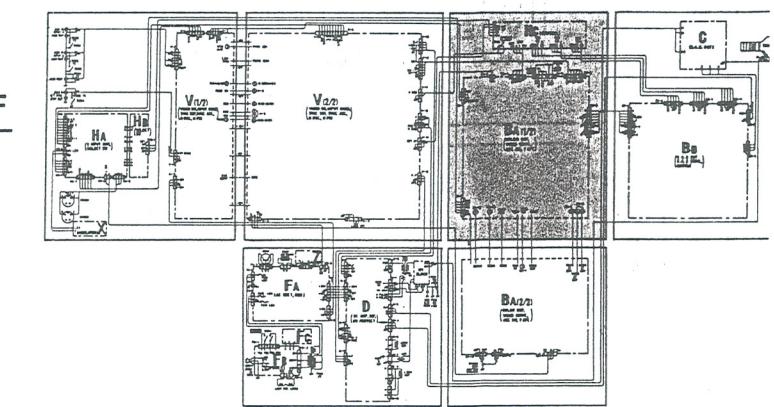
B

C

D

E

F



A

B

C

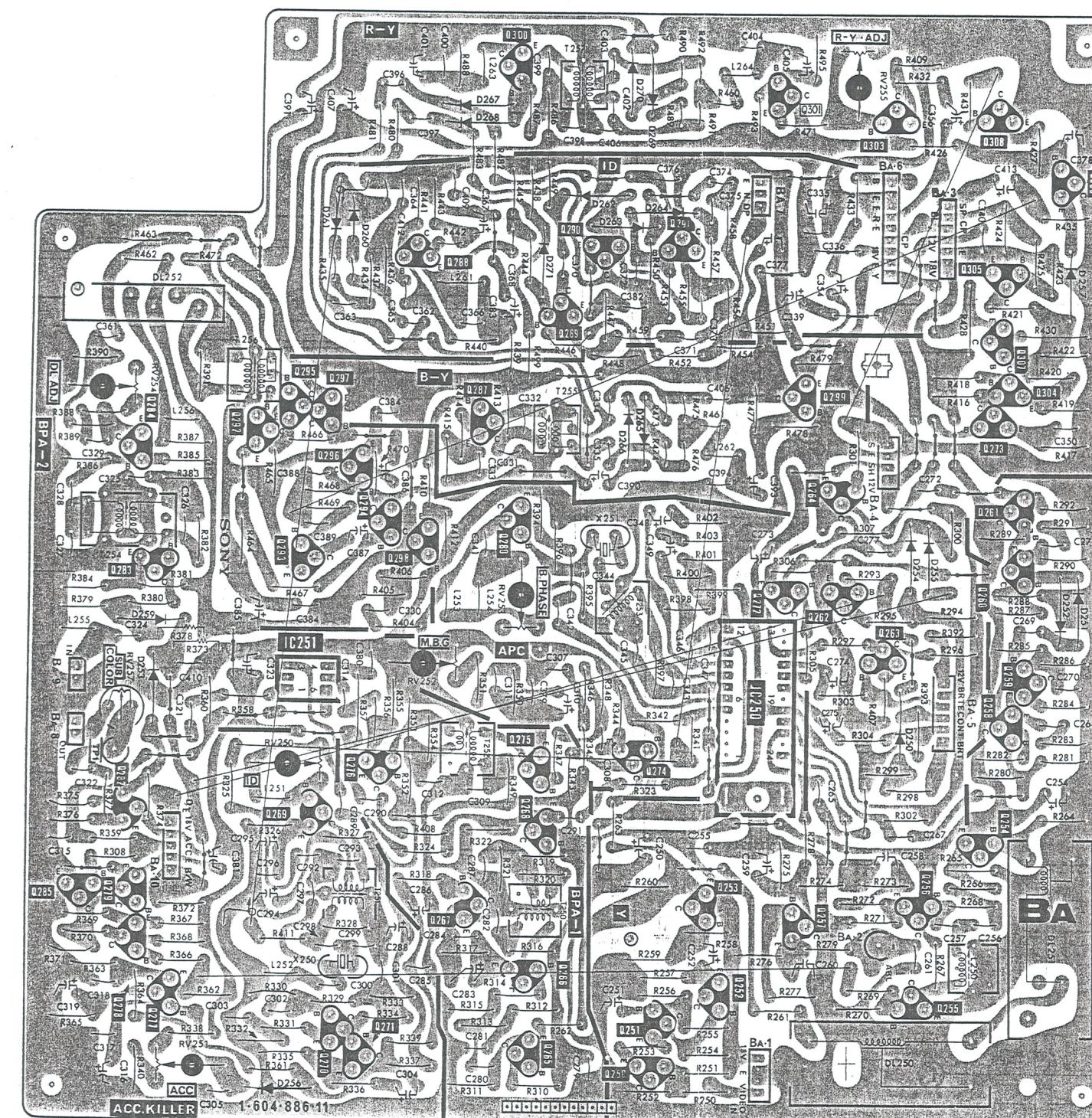
D

E

F

G

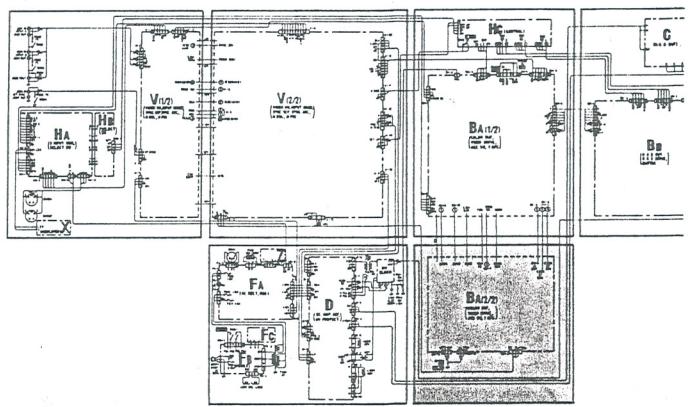
- BA 2/2 Board -



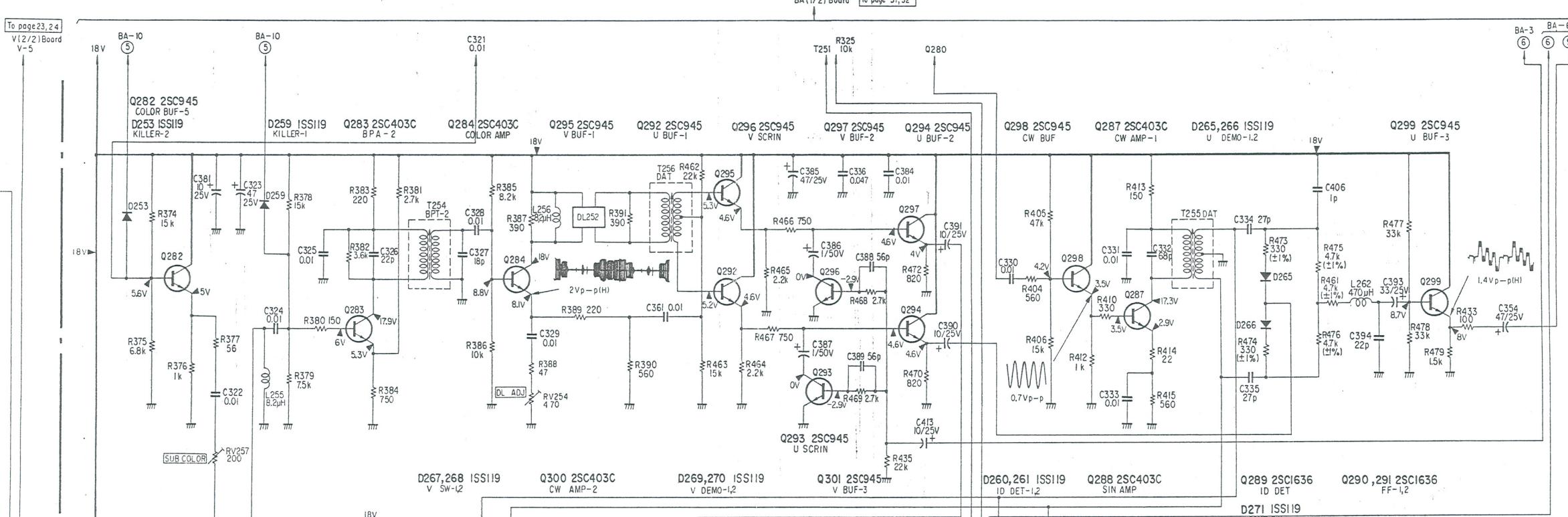
Q, IC	D	ADJ
300	270	
301	269	
303	267	
308	268	
306	262	
	264	
	260	
290	261	263
288	271	
305	257	
289		
307		
304	299	
295	297	
297	273	
292	266	
284	265	
296	264	
294	261	
280	260	
298	254	255
283	253	
260	252	
272	262	251
262	259	
272	262	
252	259	
263		
IC251	259	
IC250	253	
	258	
	250	
276	274	
275	274	
282	269	
268	268	
	254	
285	279	
267	253	256
	257	
278		
266		
277	252	
	255	
251		
270	251	
271	265	
	250	
256		

A B C D E F

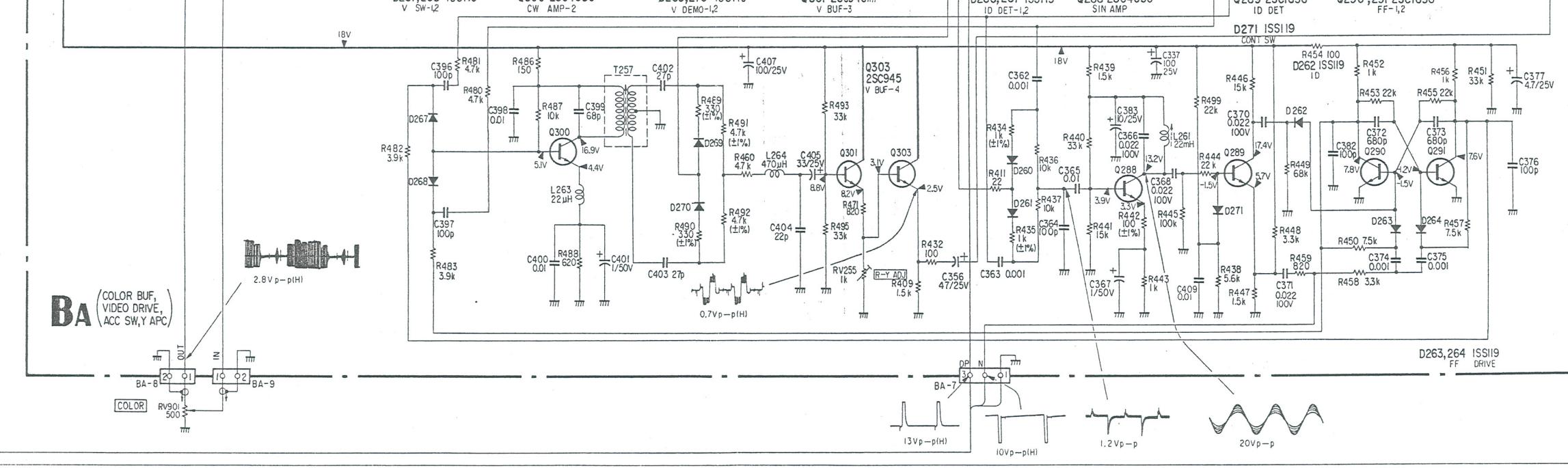
1



2



3



4

BA (COLOR BUF,
VIDEO DRIVE,
ACC SW, Y APC)

5

A

8

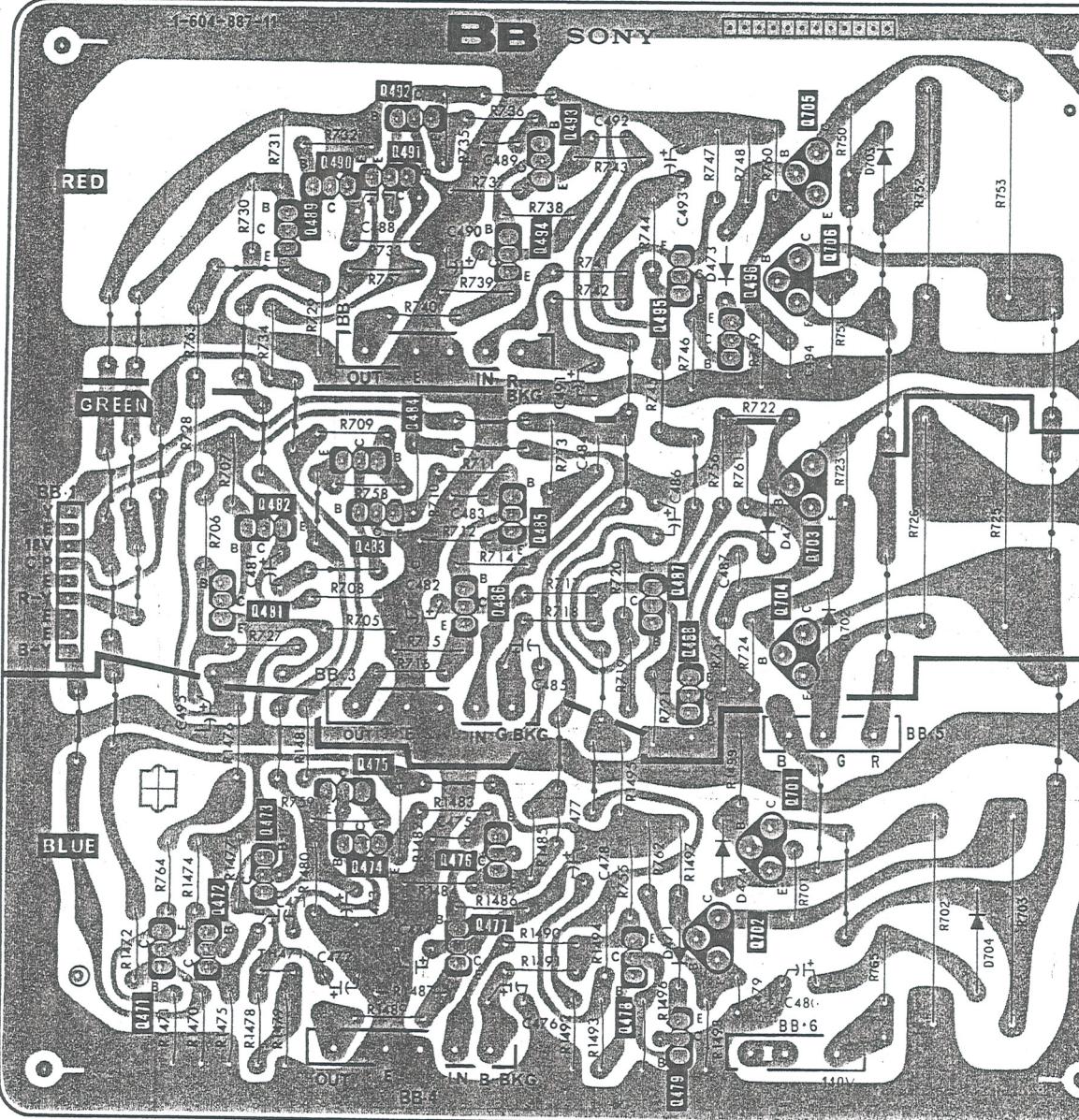
3

6

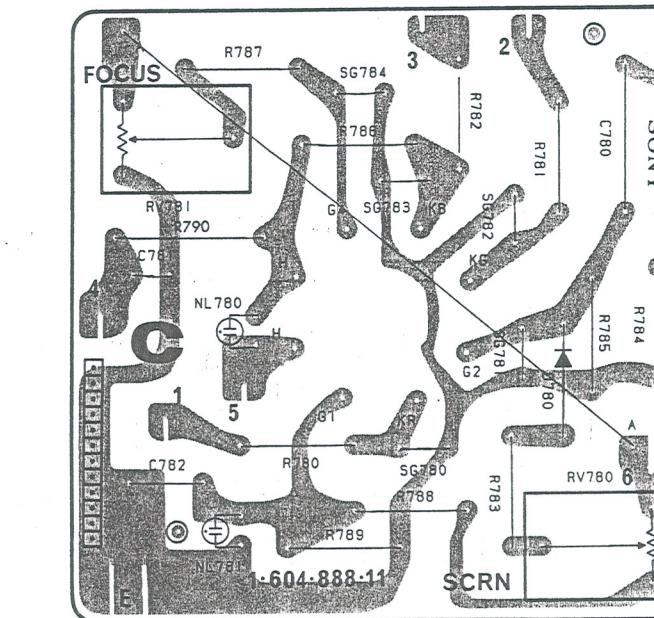
– C Board

— BB Board —

— C Board —



Q, IC	
492	
	493 705
490	491
489	
	494
	495 706
	496
484	
	703
483	485
482	
481	486 487
	704
	488
475	
474	476 701
473	
	702
471	472 477
	478
	479



B B

R.G.B OUT,
R.G.B DRIVE,
MATRIX

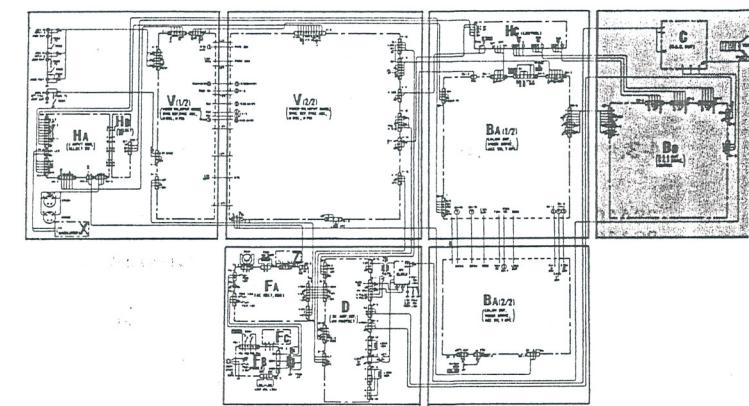
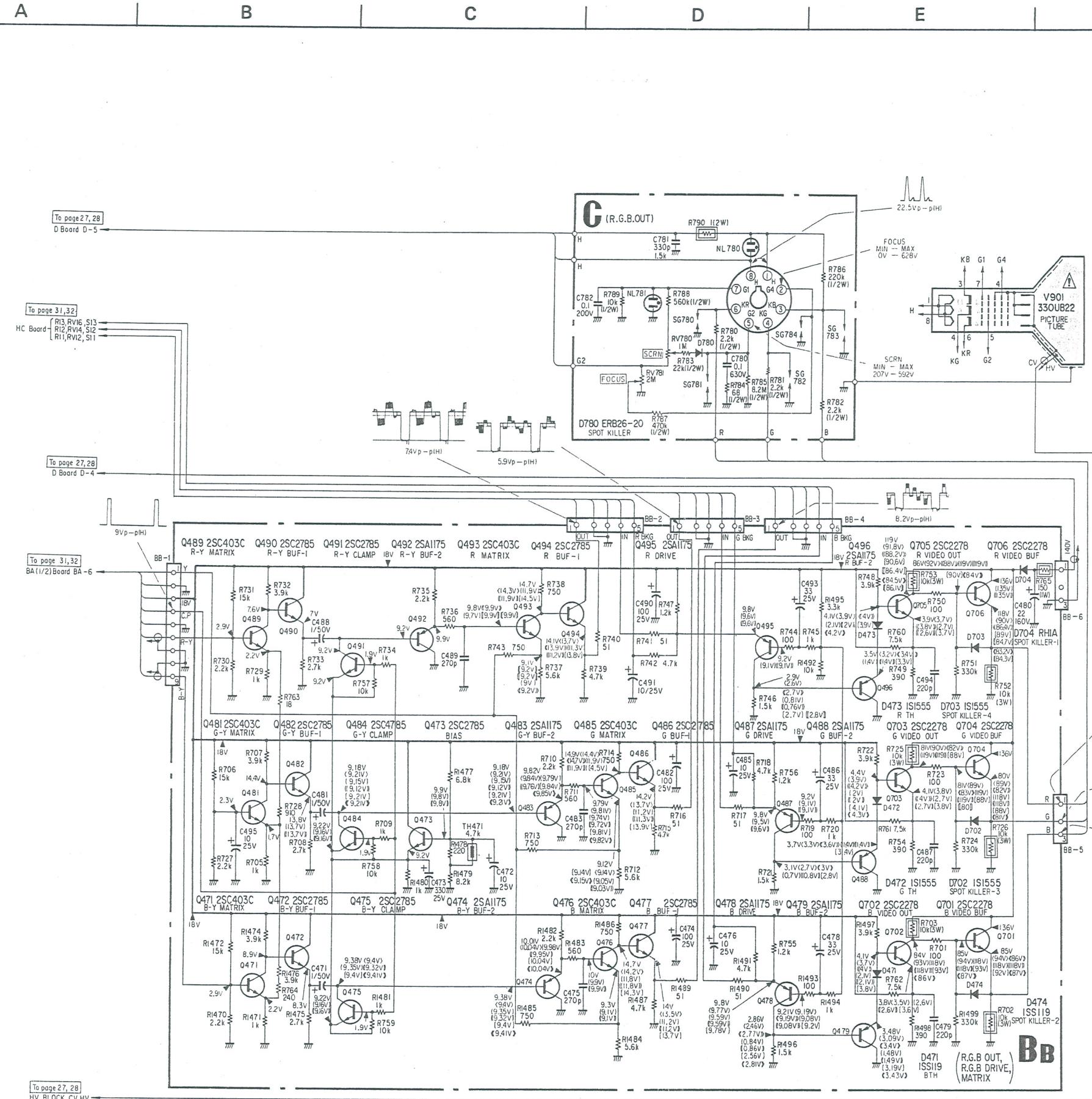
C

(R.G.B OUT)

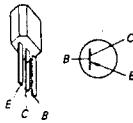
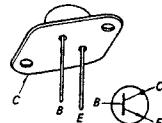
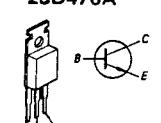
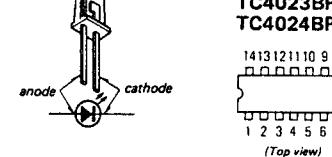
SOC-363A-A

PVM-1320P PVM-1320P

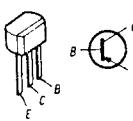
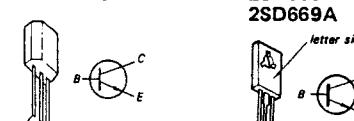
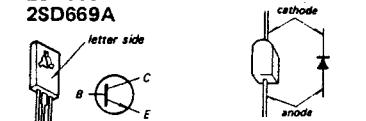
SCC-363A-A



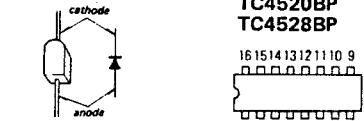
4-3. SEMICONDUCTORS

2SA1026
2SA1027R2SC1413
2SC1413A2SD1134
2SD1138
2SD476ATC4001BP
TC4011BP
TC4023BP
TC4024BP

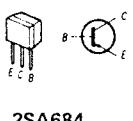
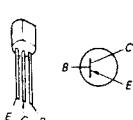
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2SC1636
2SC403C2SD669
2SD669A

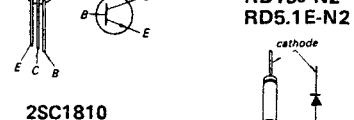
HF1C



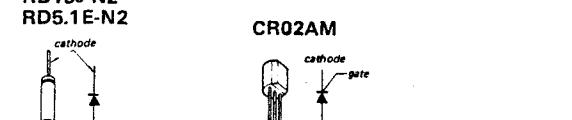
2SA1175

2SC1670
2SC1811
2SC1815
2SC1890A
2SC2383
2SC2603
2SC94510E2
1S1555
1S2076
1S2473
1T22A
1T22AM
RD10E-N3
RD15J-N2
RD5.1E-N2RH1
RH1A
RH1C2SA684
2SA733
2SA773

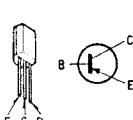
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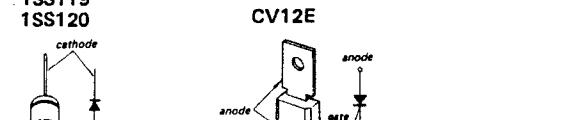
CR02AM



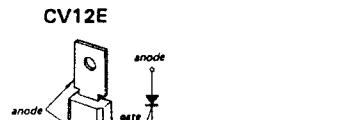
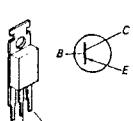
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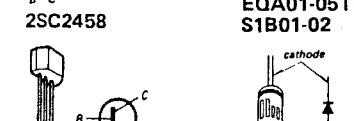
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1SS119
1SS120

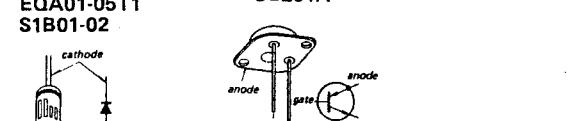
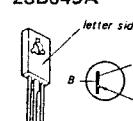
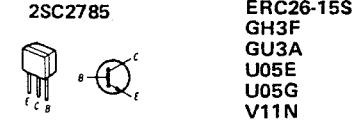
CV12E

2SB566A
2SB858
2SB861

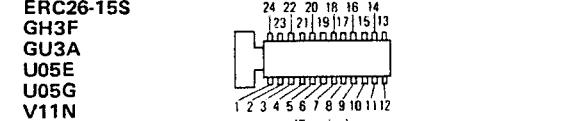
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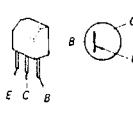
SG264A

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2SB649AERB26-20
ERC26-15S
GH3F
GU3A
U05E
U05G
V11N

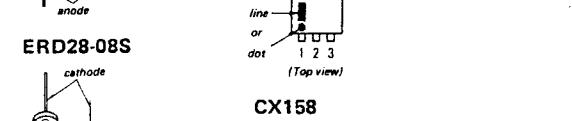
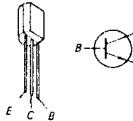
CX108



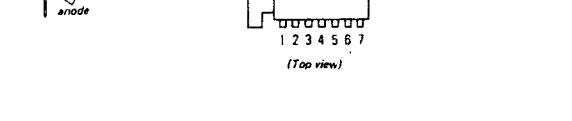
2SB734

2SC2959
2SD774

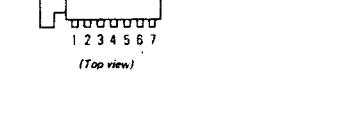
ERD28-08S

2SC1363
2SC1364

CX130



CX158



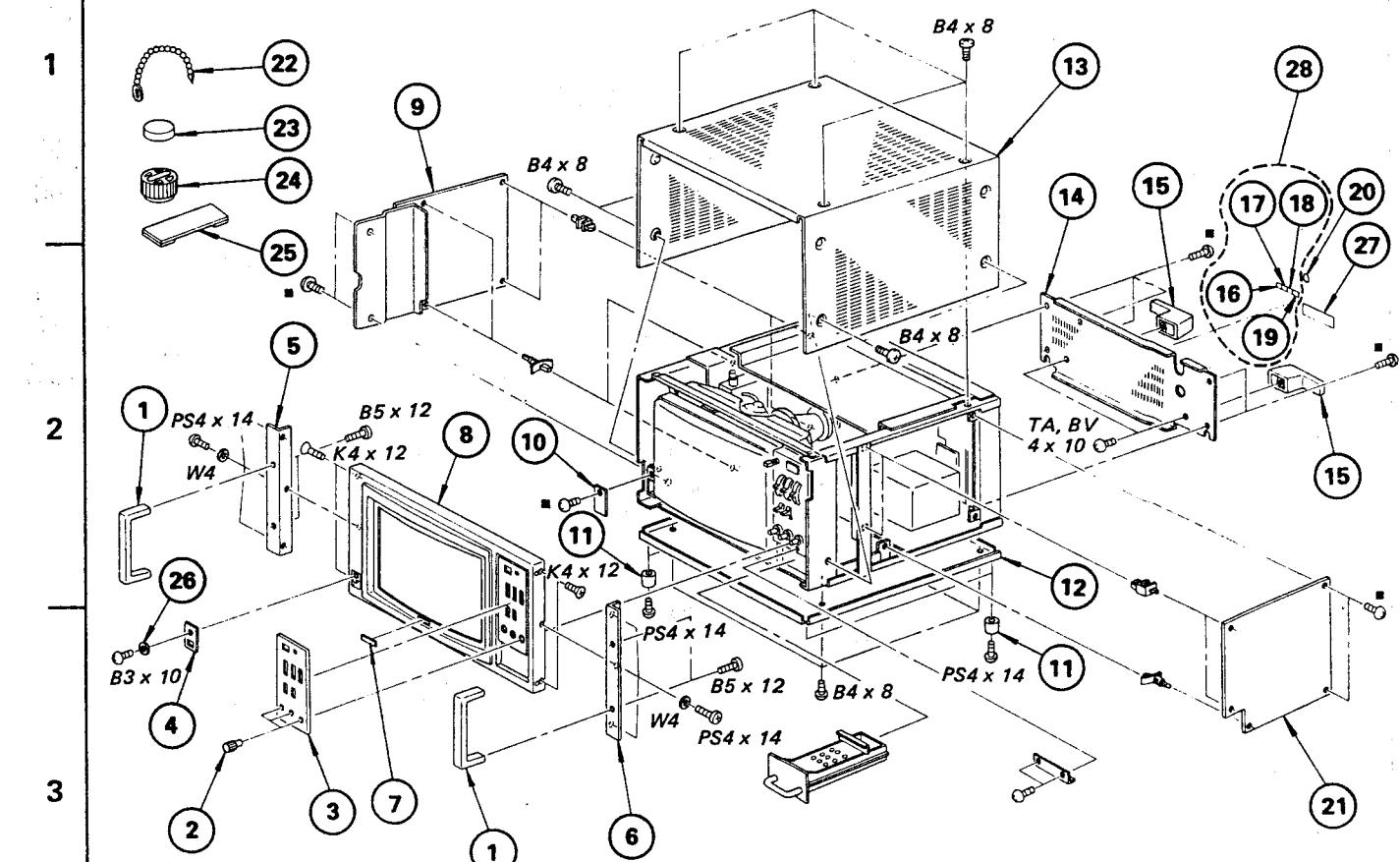
SECTION 5
EXPLODED VIEWS

MEMO

A B C D

(1) CABINET

■ : TA, BV3 x 8



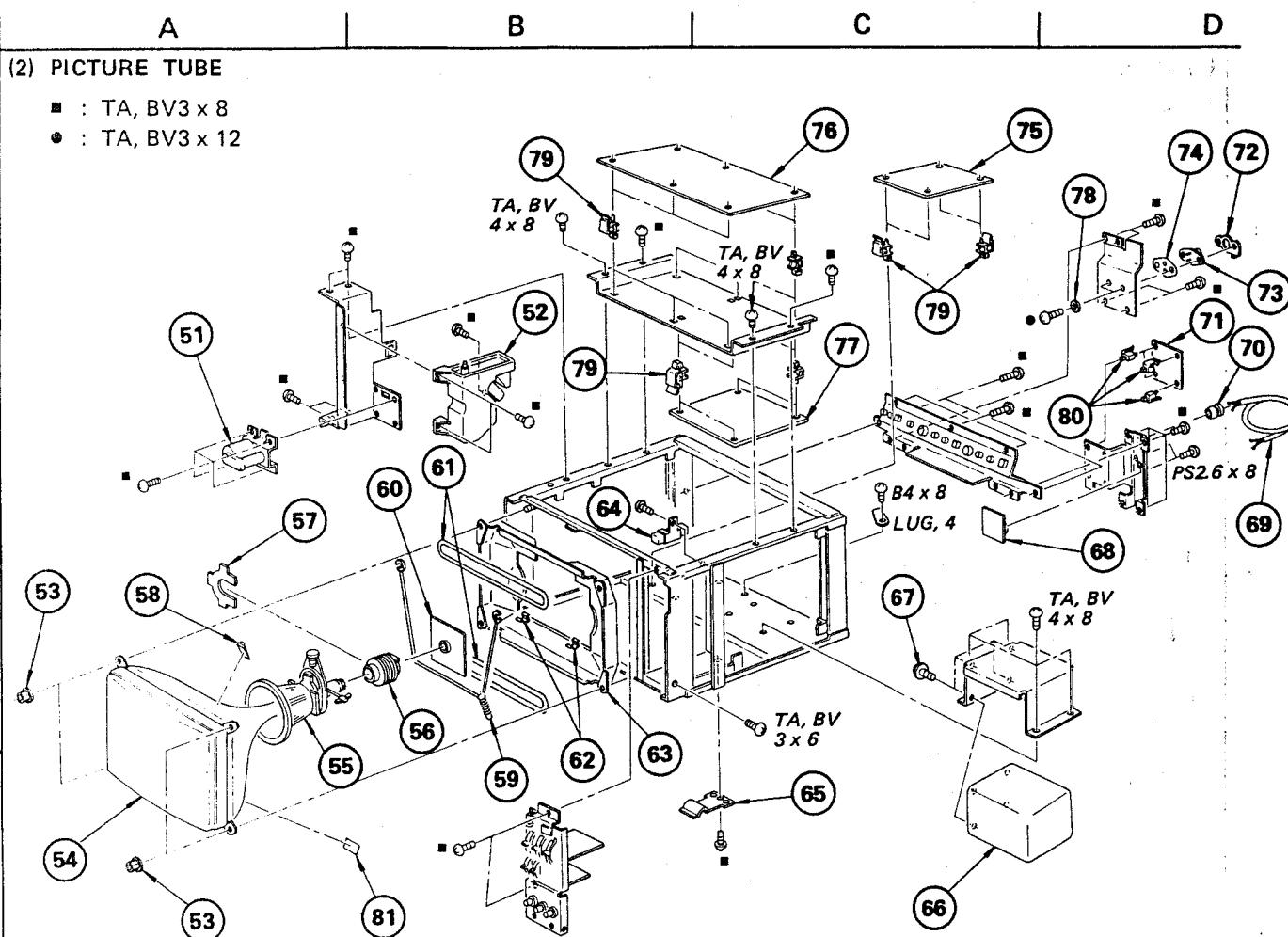
No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	4-337-212-00	HANDLE		15	4-304-418-00	CLAMP, CORD	
2	X-4318-505-0	KNOB ASSY, CONTROL		16	3-703-269-00	LABEL, SEV	
3	4-353-623-00	PLATE (A), ORNAMENTAL		17	4-310-379-00	LABEL, NEMKO	
4	4-353-615-00	COVER		18	4-310-380-00	LABEL, DEMKO	
5	4-335-964-00	BASE (LEFT), HANDLE		19	4-310-381-00	LABEL, SEMKO	
6	4-335-963-00	BASE (RIGHT), HANDLE		20	3-701-940-01	LABEL, BEAR	
7	3-701-845-00	EMBLEM, SONY		21	4-A-1135-130-A	BA BOARD, COMPLETE	
8	X-4353-602-0	BEZEL ASSY		22	4-308-870-00	CLIP, LEAD WIRE	
9	4-A-1345-319-A	D BOARD, COMPLETE	3,4,7,26	23	1-452-032-00	MAGNET, DISC	
10	4-1604-884-00	Z BOARD		24	1-452-094-00	MAGNET, ROTATABLE DISK; 15mm ϕ	
11	X-483-890-29	FOOT, RUBBER		25	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
12	4-353-645-00	COVER (LOWER)		26	3-701-440-11	WASHER, 3.5	
13	4-353-644-00	COVER (UPPER)		27	4-353-618-00	LABEL, MODEL NUMBER (LARGE)	
14	4-353-635-00	COVER, BACK		28	3-703-274-00	LABEL, APPROVAL	

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

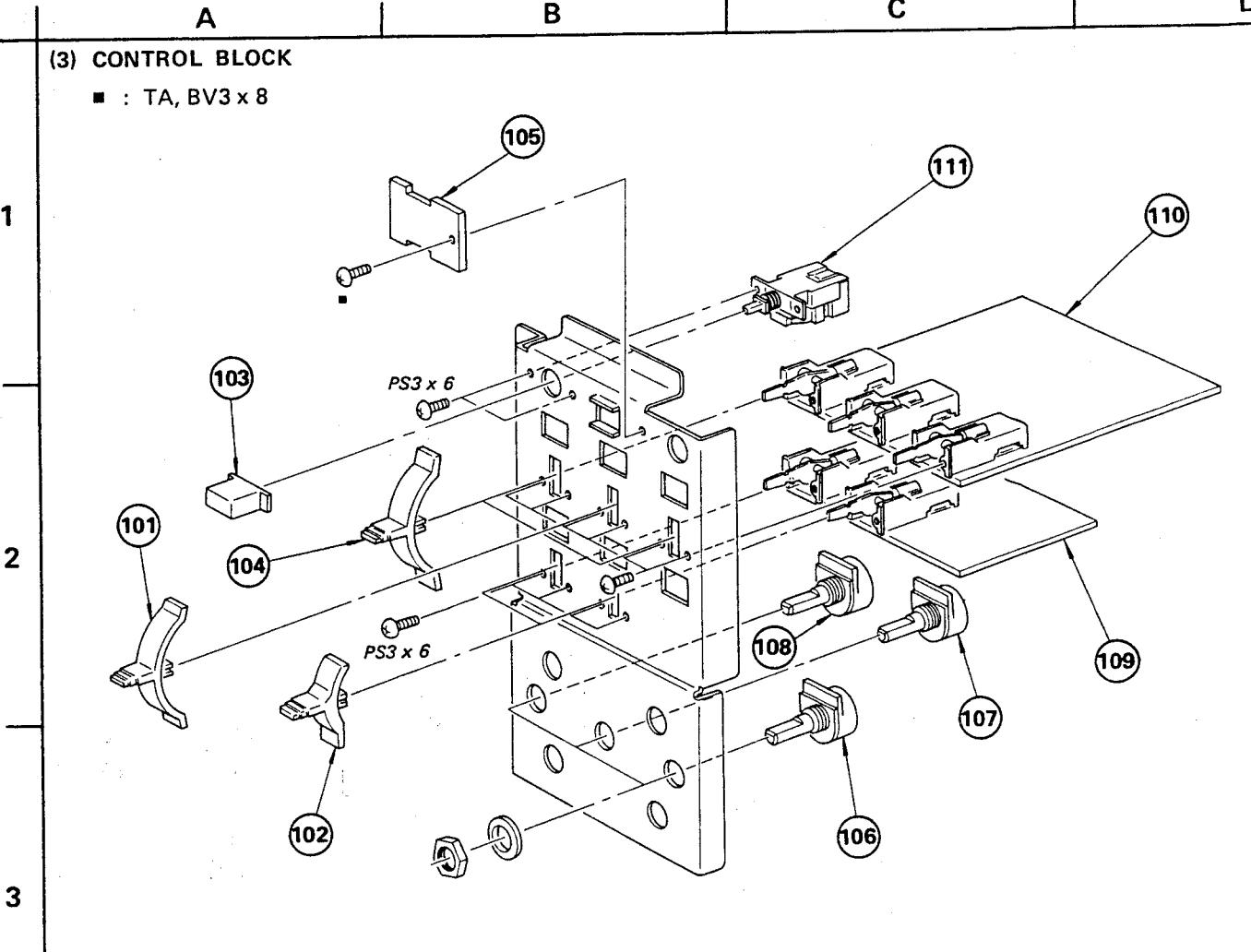


No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	△:A-1-439-208-00	TRANSFORMER, FLYBACK		67	3-701-810-21	SCREW, TERMINAL	
52	△:A-1-453-081-00	HIGH-VOLTAGE BLOCK, DC		68	▲:1-604-883-00	FC BOARD	
53	4-306-034-00	FLANGE NUT, (B) 5MM		69	△:1-534-820-XX	POWER CORD	
54	△:A-8-738-301-05	13NBF (FINE PITCH) 330UB22		70	△:2-045-063-00	STOPPER, CORD	
55	△:A-1-451-160-00	DEFLECTION YOKE (SY-97)		71	▲:1-604-882-00	FB BOARD	
56	△:A-1-452-112-42	NECK ASSY, CRT		72	▲:4-314-938-01	RETAINER (TO-3), TRANSISTOR	
57	1-452-146-00	MAGNET, BMC		73	8-729-311-42	TRANSISTOR 2SC1114	
58	3-703-003-00	SPACER, DY		74	3-701-353-00	SPACER, MICA	
59	4-303-774-XX	SPRING		75	▲:A-1245-138-A	FA BOARD, COMPLETE	
60	▲:A-1-330-316-A	C BOARD, COMPLETE		76	▲:A-1347-003-A	V BOARD, COMPLETE	
61	△:A-1-425-922-41	COIL, DEGAUSS		77	▲:A-1130-142-A	BB BOARD, COMPLETE	
62	▲:A-4-309-624-00	TERMINAL, EARTH		78	3-701-609-00	BUSHING, (B)	
63	▲:X-4320-005-0	SHIELD ASSY, CRT		79	▲:3-703-141-00	HOLDER, PCB	
64	1-205-608-00	RES, CEMENT 180		80	▲:3-659-681-00	HOLDER, PC BOARD	
65	▲:4-353-604-00	SPRING, LEAF		81	3-701-690-00	LABEL	
66	△:A-1-447-065-00	TRANSFORMER, POWER					

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
 • Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.



No.	Part No	Description	Remark	No.	Part No	Description	Remark
101	4-347-105-00	KNOB (4P), LEVER SWITCH		107	1-224-619-00	RES, VAR, CARBON 5K	
102	4-335-954-02	KNOB (2P), LEVER SWITCH		108	1-226-687-00	RES, VAR 500	
103	4-335-962-00	PUSH BUTTON		109	▲:1-604-880-00	HB BOARD	
104	4-335-953-02	KNOB (3P), LEVER SWITCH		110	▲:1-604-879-00	HA BOARD	
105	▲:1-604-885-00	X BOARD		111	△:A-1-553-330-00	SWITCH, PUSH (POWER)	
106	1-224-259-XX	RES, VAR, CARBON 5.0K					

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
 • Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

A

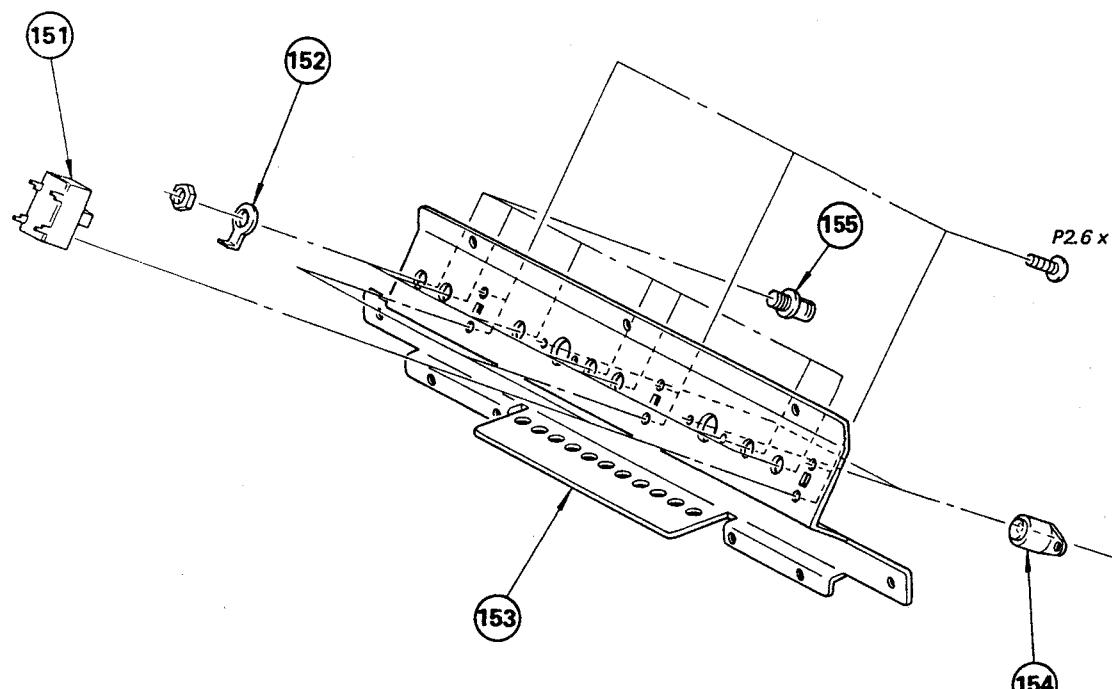
B

C

D

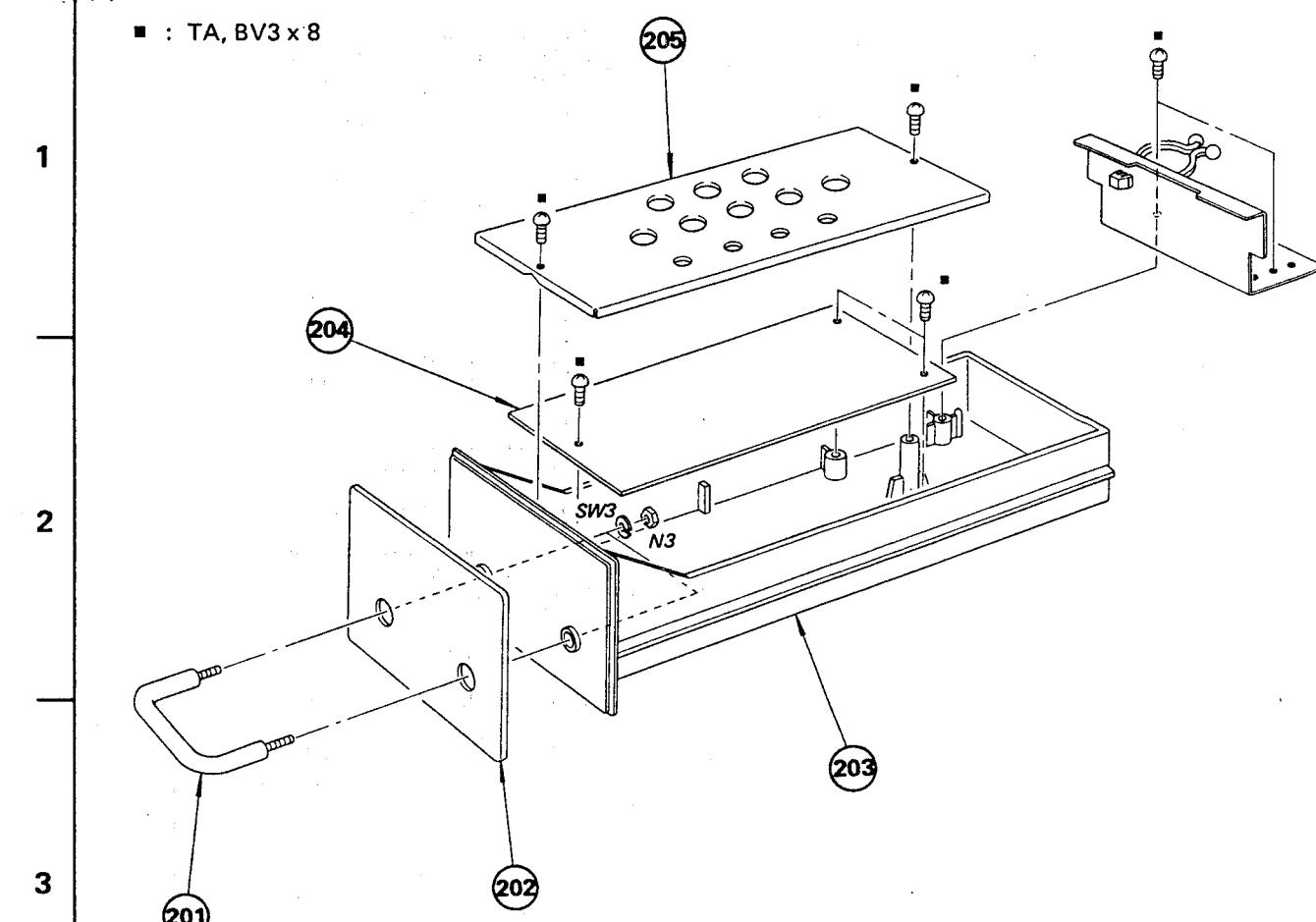
(4) CONNECTOR PANEL

■ : TA, BV3 x 8



(5) HC BLOCK

■ : TA, BV3 x 8



1

2

3

A

B

C

D

No.	Part No	Description	Remark
151	1-516-777-XX	SLIDE SWITCH	
152	4-325-529-00	TERMINAL, CONNECTOR	
153	4-353-641-00	PANEL, CONNECTOR	

No.	Part No	Description	Remark
154	1-509-718-00	DIN 4P SOCKET	
155	1-561-167-00	CONNECTOR	

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a callout number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
 • Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety.
 Replace only with part number specified.

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a callout number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
 • Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety.
 Replace only with part number specified.

SECTION 6

ELECTRICAL PARTS LIST

B B

B B

Ref.No	Part No	Description		Remark	Ref.No	Part No	Description		Remark	
A-1130-142-A	BB BOARD, COMPLETE	*****			Q478	8-729-117-54	TRANSISTOR	2SA1175		
	CONNECTOR				Q479	8-729-117-54	TRANSISTOR	2SA1175		
BB1	♦:1-560-129-00	PLUG, CONNECTOR (2.5MM)	9P		Q481	8-724-375-01	TRANSISTOR	2SC403C		
BB2	♦:1-508-767-00	5P PLUG			Q482	8-729-178-54	TRANSISTOR	2SC2785		
BB3	♦:1-508-767-00	5P PLUG			Q483	8-729-117-54	TRANSISTOR	2SA1175		
BB4	♦:1-508-767-00	5P PLUG			Q484	8-729-178-54	TRANSISTOR	2SC2785		
BB5	♦:1-508-765-00	3P PLUG (M)			Q485	8-724-375-01	TRANSISTOR	2SC403C		
BB6	♦:1-508-765-00	3P PLUG (M)			Q486	8-729-178-54	TRANSISTOR	2SC2785		
	CAPACITOR				Q487	8-729-117-54	TRANSISTOR	2SA1175		
C471	1-123-380-00	ELECT	1MF	20%	Q488	8-729-117-54	TRANSISTOR	2SA1175		
C472	1-123-329-00	ELECT	10MF	20%	Q489	8-724-375-01	TRANSISTOR	2SC403C		
C473	1-123-335-00	ELECT	330MF	20%	Q490	8-729-178-54	TRANSISTOR	2SC2785		
C474	1-123-333-00	ELECT	100MF	20%	Q491	8-729-178-54	TRANSISTOR	2SC2785		
C475	1-102-980-00	CERAMIC	270PF	5%	Q492	8-729-117-54	TRANSISTOR	2SA1175		
C476	1-123-329-00	ELECT	10MF	20%	Q493	8-724-375-01	TRANSISTOR	2SC403C		
C478	1-123-331-00	ELECT	33MF	20%	Q494	8-729-178-54	TRANSISTOR	2SC2785		
C479	1-102-978-00	CERAMIC	220PF	5%	Q495	8-729-117-54	TRANSISTOR	2SA1175		
C480	1-123-253-00	ELECT	22MF		Q496	8-729-117-54	TRANSISTOR	2SA1175		
C481	1-123-380-00	ELECT	1MF	20%	Q701	8-729-322-78	TRANSISTOR	2SC2278		
C482	1-123-333-00	ELECT	100MF	20%	Q702	8-729-322-78	TRANSISTOR	2SC2278		
C483	1-102-980-00	CERAMIC	270PF	5%	Q703	8-729-322-78	TRANSISTOR	2SC2278		
C485	1-123-329-00	ELECT	10MF	20%	Q704	8-729-322-78	TRANSISTOR	2SC2278		
C486	1-123-331-00	ELECT	33MF	20%	Q705	8-729-322-78	TRANSISTOR	2SC2278		
C487	1-102-978-00	CERAMIC	220PF	5%	Q706	8-729-322-78	TRANSISTOR	2SC2278		
	RESISTOR				R701	1-246-449-00	CARBON	100	5%	1/4W
C488	1-123-380-00	ELECT	1MF	20%	R702	1-206-749-00	METAL	10K	5%	3W
C489	1-102-980-00	CERAMIC	270PF	5%	R703	1-206-749-00	METAL	10K	5%	3W
C490	1-123-333-00	ELECT	100MF	20%	R705	1-246-473-00	CARBON	1K	5%	1/4W
C491	1-123-329-00	ELECT	10MF	20%	R706	1-246-501-00	CARBON	15K	5%	1/4W
C493	1-123-331-00	ELECT	33MF	20%	R707	1-246-487-00	CARBON	3.9K	5%	1/4W
C494	1-102-978-00	CERAMIC	220PF	5%	R708	1-246-483-00	CARBON	2.7K	5%	1/4W
C495	1-123-329-00	ELECT	10MF	20%	R709	1-246-473-00	CARBON	1K	5%	1/4W
	DIODE				R710	1-246-481-00	CARBON	2.2K	5%	1/4W
D471	8-719-911-19	DIODE	ISS119		R711	1-246-467-00	CARBON	560	5%	1/4W
D472	8-719-911-19	DIODE	ISS119		R712	1-246-491-00	CARBON	5.6K	5%	1/4W
D473	8-719-911-19	DIODE	ISS119		R713	1-246-470-00	CARBON	750	5%	1/4W
D474	8-719-911-19	DIODE	ISS119		R714	1-246-470-00	CARBON	750	5%	1/4W
D702	8-719-911-19	DIODE	ISS119		R715	1-246-489-00	CARBON	4.7K	5%	1/4W
D703	8-719-911-19	DIODE	ISS119		R716	1-246-442-00	CARBON	51	5%	1/4W
D704	8-719-300-76	DIODE	RH1A		R717	1-246-442-00	CARBON	51	5%	1/4W
	TRANSISTOR				R718	1-246-489-00	CARBON	4.7K	5%	1/4W
Q471	8-724-375-01	TRANSISTOR	2SC403C		R719	1-246-449-00	CARBON	100	5%	1/4W
Q472	8-729-178-54	TRANSISTOR	2SC2785		R720	1-246-473-00	CARBON	1K	5%	1/4W
Q473	8-729-178-54	TRANSISTOR	2SC2785		R721	1-246-477-00	CARBON	1.5K	5%	1/4W
Q474	8-729-117-54	TRANSISTOR	2SA1175		R722	1-246-487-00	CARBON	3.9K	5%	1/4W
Q475	8-729-178-54	TRANSISTOR	2SC2785		R723	1-246-449-00	CARBON	100	5%	1/4W
Q476	8-724-375-01	TRANSISTOR	2SC403C		R724	1-246-533-00	CARBON	330K	5%	1/4W
Q477	8-729-178-54	TRANSISTOR	2SC2785		R725	1-206-749-00	METAL	10K	5%	3W
					R726	1-206-749-00	METAL	10K	5%	3W
Q478	8-724-375-01	TRANSISTOR	2SC403C		R727	1-246-481-00	CARBON	2.2K	5%	1/4W
Q479	8-729-178-54	TRANSISTOR	2SC2785		R728	1-246-472-00	CARBON	910	5%	1/4W

NOTE

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

- \Rightarrow : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITANCE

RS : $\mu\mu\text{F}$ RESISTORS
 • All resistors are in ohms
 • F : nonflammable

COILS

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R729	1-246-473-00	CARBON	1K 5% 1/4W	R1487	1-246-489-00	CARBON	4.7K 5% 1/4W
R730	1-246-481-00	CARBON	2.2K 5% 1/4W	R1489	1-246-442-00	CARBON	51 5% 1/4W
R731	1-246-501-00	CARBON	15K 5% 1/4W	R1490	1-246-442-00	CARBON	51 5% 1/4W
R732	1-246-487-00	CARBON	3.9K 5% 1/4W	R1491	1-246-489-00	CARBON	4.7K 5% 1/4W
R733	1-246-483-00	CARBON	2.7K 5% 1/4W	R1492	1-246-497-00	CARBON	10K 5% 1/4W
R734	1-246-473-00	CARBON	1K 5% 1/4W	R1493	1-246-449-00	CARBON	100 5% 1/4W
R735	1-246-481-00	CARBON	2.2K 5% 1/4W	R1494	1-246-473-00	CARBON	1K 5% 1/4W
R736	1-246-467-00	CARBON	560 5% 1/4W	R1495	1-246-485-00	CARBON	3.3K 5% 1/4W
R737	1-246-491-00	CARBON	5.6K 5% 1/4W	R1496	1-246-477-00	CARBON	1.5K 5% 1/4W
R738	1-246-470-00	CARBON	750 5% 1/4W	R1497	1-246-487-00	CARBON	3.9K 5% 1/4W
R739	1-246-489-00	CARBON	4.7K 5% 1/4W	R1498	1-246-463-00	CARBON	390 5% 1/4W
R740	1-246-442-00	CARBON	51 5% 1/4W	R1499	1-246-533-00	CARBON	330K 5% 1/4W
R741	1-246-442-00	CARBON	51 5% 1/4W				
R742	1-246-489-00	CARBON	4.7K 5% 1/4W				
R743	1-246-470-00	CARBON	750 5% 1/4W				
R744	1-246-449-00	CARBON	100 5% 1/4W				
R745	1-246-473-00	CARBON	1K 5% 1/4W				
R746	1-246-477-00	CARBON	1.5K 5% 1/4W				
R747	1-246-475-00	CARBON	1.2K 5% 1/4W				
R748	1-246-487-00	CARBON	3.9K 5% 1/4W				
R749	1-246-463-00	CARBON	390 5% 1/4W				
R750	1-246-449-00	CARBON	100 5% 1/4W				
R751	1-246-533-00	CARBON	330K 5% 1/4W				
R752	1-206-749-00	METAL	10K 5% 3W F				
R753	1-206-749-00	METAL	10K 5% 3W F				
R754	1-246-463-00	CARBON	390 5% 1/4W	BA1	1-560-124-00	PLUG, CONNECTOR (2.5MM)	4P
R755	1-246-475-00	CARBON	1.2K 5% 1/4W	BA3	1-560-126-00	PLUG, CONNECTOR (2.5MM)	6P
R756	1-246-475-00	CARBON	1.2K 5% 1/4W	BA4	1-560-124-00	PLUG, CONNECTOR (2.5MM)	4P
R757	1-246-497-00	CARBON	10K 5% 1/4W	BA5	1-560-126-00	PLUG, CONNECTOR (2.5MM)	6P
R758	1-246-497-00	CARBON	10K 5% 1/4W	BA6	1-560-129-00	PLUG, CONNECTOR (2.5MM)	9P
R759	1-246-497-00	CARBON	10K 5% 1/4W	BA7	1-508-742-00	PIN, CONNECTOR 3P	
R760	1-246-494-00	CARBON	7.5K 5% 1/4W	BA8	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	2P
R761	1-246-494-00	CARBON	7.5K 5% 1/4W	BA9	1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	2P
R762	1-246-494-00	CARBON	7.5K 5% 1/4W	BA10	1-560-125-00	PLUG, CONNECTOR (2.5MM)	5P
R763	1-246-431-00	CARBON	18 5% 1/4W				
R764	1-246-458-00	CARBON	240 5% 1/4W				
R765	1-213-133-00	METAL	150 5% 1W F				
R1470	1-246-481-00	CARBON	2.2K 5% 1/4W	C250	1-123-333-00	ELECT	100MF 20% 25V
R1471	1-246-473-00	CARBON	1K 5% 1/4W	C251	1-123-332-00	ELECT	47MF 20% 25V
R1472	1-246-501-00	CARBON	15K 5% 1/4W	C252	1-123-332-00	ELECT	47MF 20% 25V
R1474	1-246-487-00	CARBON	3.9K 5% 1/4W	C254	1-123-333-00	ELECT	100MF 20% 25V
R1475	1-246-483-00	CARBON	2.7K 5% 1/4W	C255	1-101-004-00	CERAMIC	0.01MF 50V
R1476	1-246-487-00	CARBON	3.9K 5% 1/4W				
R1477	1-246-493-00	CARBON	6.8K 5% 1/4W				
R1478	1-246-457-00	CARBON	220 5% 1/4W	C256	1-102-858-00	CERAMIC	10PF 0.5PF 50V
R1479	1-246-495-00	CARBON	8.2K 5% 1/4W	C257	1-102-858-00	CERAMIC	10PF 0.5PF 50V
R1480	1-246-473-00	CARBON	1K 5% 1/4W	C258	1-121-806-00	ELECT	10MF 16V
R1481	1-246-473-00	CARBON	1K 5% 1/4W	C259	1-123-329-00	ELECT	10MF 20% 25V
R1482	1-246-481-00	CARBON	2.2K 5% 1/4W	C260	1-123-379-00	ELECT	0.47MF 20% 50V
R1483	1-246-467-00	CARBON	560 5% 1/4W	C261	1-108-421-00	MYLAR	0.01MF 10% 200V
R1484	1-246-491-00	CARBON	5.6K 5% 1/4W	C265	1-102-074-00	CERAMIC	0.001MF 10% 50V
R1485	1-246-470-00	CARBON	750 5% 1/4W	C267	1-101-004-00	CERAMIC	0.01MF 50V
R1486	1-246-470-00	CARBON	750 5% 1/4W	C268	1-102-820-00	CERAMIC	330PF 5% 50V
R1487	1-246-467-00	CARBON	560 5% 1/4W	C269	1-101-004-00	CERAMIC	0.01MF 50V
R1488	1-246-481-00	CARBON	1.5K 5% 1/4W	C270	1-101-006-00	CERAMIC	0.047MF 50V
R1489	1-246-473-00	CARBON	1.5K 5% 1/4W	C271	1-101-004-00	CERAMIC	0.01MF 50V
R1490	1-246-473-00	CARBON	1.5K 5% 1/4W	C272	1-101-888-00	CERAMIC	68PF 5% 50V

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS • MF : μ F, PF : $\mu\mu$ F	RESISTORS • All resistors are in ohms • F : nonflammable
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COILS

BA

E

Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
Q299 =>8-729-663-47	TRANSISTOR	2SC1634		R295	1-246-501-00	CARBON	15K 5% 1/4W	R349	1-246-457-00	CARBON	220 5% 1/4W	R403	1-246-485-00	CARBON	3.3K 5% 1/4W
Q300 8-724-374-01	TRANSISTOR	2SC403C		R296	1-246-471-00	CARBON	820 5% 1/4W	R350	1-246-469-00	CARBON	680 5% 1/4W	R404	1-246-467-00	CARBON	560 5% 1/4W
Q301 =>8-729-663-47	TRANSISTOR	2SC1634		R297	1-246-506-00	CARBON	24K 5% 1/4W	R351	1-246-457-00	CARBON	220 5% 1/4W	R405	1-246-513-00	CARBON	47K 5% 1/4W
Q303 =>8-729-663-47	TRANSISTOR	2SC1634		R298	1-246-491-00	CARBON	5.6K 5% 1/4W	R352	1-246-507-00	CARBON	27K 5% 1/4W	R406	1-246-501-00	CARBON	15K 5% 1/4W
Q304 =>8-729-663-47	TRANSISTOR	2SC1634		R299	1-246-491-00	CARBON	5.6K 5% 1/4W	R353	1-246-493-00	CARBON	6.8K 5% 1/4W	R407	1-246-465-00	CARBON	470 5% 1/4W
Q305 =>8-729-663-47	TRANSISTOR	2SC1634		R300	1-246-509-00	CARBON	33K 5% 1/4W	R354	1-246-479-00	CARBON	1.8K 5% 1/4W	R408	1-246-449-00	CARBON	100 5% 1/4W
Q307 8-729-304-92	TRANSISTOR	2SB649A		R301	1-246-497-00	CARBON	10K 5% 1/4W	R355	1-246-473-00	CARBON	1K 5% 1/4W	R409	1-246-477-00	CARBON	1.5K 5% 1/4W
RESISTOR				R302	1-246-467-00	CARBON	560 5% 1/4W	R356	1-246-449-00	CARBON	100 5% 1/4W	R410	1-246-461-00	CARBON	330 5% 1/4W
R250 1-246-441-00	CARBON	47 5% 1/4W		R303	1-246-473-00	CARBON	1K 5% 1/4W	R357	1-244-857-00	CARBON	220 5% 1/2W	R411	1-246-433-00	CARBON	22 5% 1/4W
R251 1-246-516-00	CARBON	62K 5% 1/4W		R304	1-246-473-00	CARBON	1K 5% 1/4W	R358	1-246-453-00	CARBON	150 5% 1/4W	R412	1-246-473-00	CARBON	1K 5% 1/4W
R252 1-246-491-00	CARBON	5.6K 5% 1/4W		R305	1-246-457-00	CARBON	220 5% 1/4W	R359	1-246-491-00	CARBON	5.6K 5% 1/4W	R413	1-246-453-00	CARBON	150 5% 1/4W
R253 1-246-465-00	CARBON	470 5% 1/4W		R306	1-246-473-00	CARBON	1K 5% 1/4W	R360	1-246-479-00	CARBON	1.8K 5% 1/4W	R414	1-246-433-00	CARBON	22 5% 1/4W
R254 1-246-473-00	CARBON	1K 5% 1/4W		R307	1-246-467-00	CARBON	560 5% 1/4W	R361	1-246-497-00	CARBON	10K 5% 1/4W	R415	1-246-467-00	CARBON	560 5% 1/4W
R255 1-246-490-00	CARBON	5.1K 5% 1/4W		R308	1-246-509-00	CARBON	33K 5% 1/4W	R362	1-246-513-00	CARBON	47K 5% 1/4W	R416	1-246-473-00	CARBON	1K 5% 1/4W
R256 1-246-483-00	CARBON	2.7K 5% 1/4W		R309	1-246-441-00	CARBON	47 5% 1/4W	R363	1-246-469-00	CARBON	680 5% 1/4W	R417	1-246-471-00	CARBON	820 5% 1/4W
R257 1-246-483-00	CARBON	2.7K 5% 1/4W		R310	1-246-479-00	CARBON	1.8K 5% 1/4W	R364	1-246-463-00	CARBON	390 5% 1/4W	R418	1-246-457-00	CARBON	220 5% 1/4W
R258 1-246-489-00	CARBON	4.7K 5% 1/4W		R311	1-246-473-00	CARBON	1K 5% 1/4W	R365	1-246-501-00	CARBON	15K 5% 1/4W	R419	1-246-485-00	CARBON	3.3K 5% 1/4W
R259 1-246-485-00	CARBON	3.3K 5% 1/4W		R312	1-246-457-00	CARBON	220 5% 1/4W	R366	1-246-503-00	CARBON	18K 5% 1/4W	R420	1-246-471-00	CARBON	820 5% 1/4W
R260 1-246-473-00	CARBON	1K 5% 1/4W		R313	1-246-485-00	CARBON	3.3K 5% 1/4W	R367	1-246-507-00	CARBON	27K 5% 1/4W	R421	1-246-453-00	CARBON	150 5% 1/4W
R261 1-246-473-00	CARBON	1K 5% 1/4W		R314	1-246-453-00	CARBON	150 5% 1/4W	R368	1-246-473-00	CARBON	1K 5% 1/4W	R422	1-246-477-00	CARBON	1.5K 5% 1/4W
R262 1-246-457-00	CARBON	220 5% 1/4W		R315	1-246-479-00	CARBON	1.8K 5% 1/4W	R369	1-246-473-00	CARBON	1K 5% 1/4W	R423	1-246-483-00	CARBON	2.7K 5% 1/4W
R263 1-246-457-00	CARBON	220 5% 1/4W		R316	1-246-457-00	CARBON	220 5% 1/4W	R370	1-246-513-00	CARBON	47K 5% 1/4W	R424	1-246-497-00	CARBON	10K 5% 1/4W
R264 1-246-473-00	CARBON	1K 5% 1/4W		R317	1-246-469-00	CARBON	680 5% 1/4W	R371	1-246-501-00	CARBON	15K 5% 1/4W	R425	1-246-497-00	CARBON	10K 5% 1/4W
R265 1-246-471-00	CARBON	820 5% 1/4W		R318	1-246-481-00	CARBON	2.2K 5% 1/4W	R372	1-246-505-00	CARBON	22K 5% 1/4W	R426	1-244-869-00	CARBON	680 5% 1/2W
R266 1-246-475-00	CARBON	1.2K 5% 1/4W		R319	1-246-507-00	CARBON	27K 5% 1/4W	R373	1-246-513-00	CARBON	47K 5% 1/4W	R427	1-244-841-00	CARBON	47 5% 1/2W
R267 1-246-497-00	CARBON	10K 5% 1/4W		R320	1-246-479-00	CARBON	1.8K 5% 1/4W	R374	1-246-501-00	CARBON	15K 5% 1/4W	R428	1-246-449-00	CARBON	100 5% 1/4W
R268 1-246-461-00	CARBON	330 5% 1/4W		R321	1-246-493-00	CARBON	6.8K 5% 1/4W	R375	1-246-493-00	CARBON	6.8K 5% 1/4W	R429	1-246-449-00	CARBON	100 5% 1/4W
R269 1-246-513-00	CARBON	47K 5% 1/4W		R322	1-246-473-00	CARBON	1K 5% 1/4W	R376	1-246-473-00	CARBON	1K 5% 1/4W	R430	1-246-449-00	CARBON	100 5% 1/4W
R270 1-246-509-00	CARBON	33K 5% 1/4W		R323	1-246-449-00	CARBON	100 5% 1/4W	R377	1-246-443-00	CARBON	56 5% 1/4W	R431	1-214-132-00	METAL	1K 1% 1/4W
R271 1-246-470-00	CARBON	750 5% 1/4W		R324	1-246-441-00	CARBON	47 5% 1/4W	R378	1-246-501-00	CARBON	15K 5% 1/4W	R432	1-214-132-00	METAL	1K 1% 1/4W
R272 1-246-449-00	CARBON	100 5% 1/4W		R325	1-246-497-00	CARBON	10K 5% 1/4W	R379	1-246-494-00	CARBON	7.5K 5% 1/4W	R433	1-246-449-00	CARBON	22K 5% 1/4W
R273 1-246-501-00	CARBON	15K 5% 1/4W		R326	1-246-481-00	CARBON	2.2K 5% 1/4W	R380	1-246-453-00	CARBON	150 5% 1/4W	R434	1-246-497-00	CARBON	10K 5% 1/4W
R274 1-246-497-00	CARBON	10K 5% 1/4W		R327	1-246-461-00	CARBON	330 5% 1/4W	R381	1-246-483-00	CARBON	2.7K 5% 1/4W	R435	1-246-497-00	CARBON	5.6K 5% 1/4W
R275 1-246-517-00	CARBON	68K 5% 1/4W		R328	1-246-465-00	CARBON	470 5% 1/4W	R382	1-246-486-00	CARBON	3.6K 5% 1/4W	R436	1-246-497-00	CARBON	10K 5% 1/4W
R276 1-246-521-00	CARBON	100K 5% 1/4W		R329	1-246-501-00	CARBON	15K 5% 1/4W	R383	1-246-457-00	CARBON	220 5% 1/4W	R437	1-246-497-00	CARBON	10K 5% 1/4W
R277 1-246-505-00	CARBON	22K 5% 1/4W		R330	1-246-485-00	CARBON	3.3K 5% 1/4W	R384	1-246-470-00	CARBON	750 5% 1/4W	R438	1-246-491-00	CARBON	5.6K 5% 1/4W
R278 1-246-483-00	CARBON	2.7K 5% 1/4W		R331	1-246-431-00	CARBON	18 5% 1/4W	R385	1-246-495-00						

B_A **F_B** **F_C** **F_A**

NOTE

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- \Rightarrow : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

5

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
<u>CAPACITOR</u>								
C610	1-102-085-00	CERAMIC	0.0047MF	500V	0622 =>8-729-178-54	TRANSISTOR 2SC2785		
C611	1-102-085-00	CERAMIC	0.0047MF	500V	0623 8-729-103-43	TRANSISTOR 2SB734		
C612	1-102-085-00	CERAMIC	0.0047MF	500V	0624 =>8-729-385-81	TRANSISTOR 2SB858		
C613	1-102-085-00	CERAMIC	0.0047MF	500V	0625 =>8-729-117-54	TRANSISTOR 2SA1175		
C614	1-102-085-00	CERAMIC	0.0047MF	500V	0626 =>8-729-178-54	TRANSISTOR 2SC2785		
C615	1-125-186-00	ELECT(BLOCK)	560MF	200V	0627 =>8-729-117-54	TRANSISTOR 2SA1175		
C616	1-121-999-00	ELECT	10MF	160V	0640 8-729-309-06	TRANSISTOR 2SC1890A		
C617	1-102-228-00	CERAMIC	470PF	10%	0641 =>8-729-178-54	TRANSISTOR 2SC2785		
C618	1-121-757-00	ELECT	33MF	160V	<u>RESISTOR</u>			
C620	1-102-125-00	CERAMIC	0.0047MF	10%	50V	R610 1-202-661-00	COMPOSITION	4.7M 5% 1/2W
C621	1-102-125-00	CERAMIC	0.0047MF	10%	50V	R611 1-213-159-00	METAL	22K 5% 1W F
C622	1-102-125-00	CERAMIC	0.0047MF	10%	50V	R612 1-213-161-00	METAL	33K 5% 1W F
C623	1-102-125-00	CERAMIC	0.0047MF	10%	50V	R613 1-213-161-00	METAL	33K 5% 1W F
C624	1-123-339-00	ELECT	3300MF	20%	25V	R614 1-246-477-00	CARBON	1.5K 5% 1/4W
C625	1-123-329-00	ELECT	10MF	20%	25V	R615 1-246-489-00	CARBON	4.7K 5% 1/4W
C626	1-102-074-00	CERAMIC	0.001MF	10%	50V	R616 1-246-471-00	CARBON	820 5% 1/4W
C627	1-123-337-00	ELECT	1000MF	20%	25V	R616 1-246-472-00	CARBON	910 5% 1/4W
C628	1-123-338-00	ELECT	2200MF	20%	25V	R616 1-246-473-00	CARBON	1K 5% 1/4W
C629	1-123-329-00	ELECT	10MF	20%	25V	R616 1-246-475-00	CARBON	1.2K 5% 1/4W
C630	1-102-074-00	CERAMIC	0.001MF	10%	50V	R616 1-246-477-00	CARBON	1.5K 5% 1/4W
C631	1-123-337-00	ELECT	1000MF	20%	25V	R616 1-246-479-00	CARBON	1.8K 5% 1/4W
<u>DIODE</u>								
D610 =>8-719-911-55	DIODE U05G			R617 1-246-514-00	CARBON	51K 5% 1/4W		
D611 =>8-719-911-55	DIODE U05G			R620 1-246-481-00	CARBON	2.2K 5% 1/4W		
D612 =>8-719-911-55	DIODE U05G			R621 1-246-493-00	CARBON	6.8K 5% 1/4W		
D613 =>8-719-911-55	DIODE U05G			R622 1-246-477-00	CARBON	1.5K 5% 1/4W		
D615 8-719-102-91	DIODE RD10EN3			R623 1-246-499-00	CARBON	12K 5% 1/4W		
D620 =>8-719-200-02	DIODE 10E2			R624 1-246-492-00	CARBON	6.2K 5% 1/4W		
D621 =>8-719-200-02	DIODE 10E2			R625 1-246-481-00	CARBON	2.2K 5% 1/4W		
D622 =>8-719-200-02	DIODE 10E2			R626 1-246-493-00	CARBON	6.8K 5% 1/4W		
D623 =>8-719-200-02	DIODE 10E2			R627 1-246-477-00	CARBON	1.5K 5% 1/4W		
D624 8-719-102-68	DIODE RD5.1EN2			R628 1-246-492-00	CARBON	6.2K 5% 1/4W		
D625 8-719-102-68	DIODE RD5.1EN2			R629 1-246-499-00	CARBON	12K 5% 1/4W		
D626 8-719-103-61	DIODE RD15JN2			R630 1-246-477-00	CARBON	1.5K 5% 1/4W		
D627 8-719-103-61	DIODE RD15JN2			R630 1-246-479-00	CARBON	1.8K 5% 1/4W		
<u>CONNECTOR</u>								
FA1 1-506-371-00	2P PLUG (L)			R630 1-246-480-00	CARBON	2K 5% 1/4W		
FA2 1-508-765-00	3P PLUG (M)			R630 1-246-481-00	CARBON	2.2K 5% 1/4W		
FA3 1-508-765-00	3P PLUG (M)			R630 1-246-482-00	CARBON	2.4K 5% 1/4W		
FA4 1-506-371-00	2P PLUG (L)			R630 1-246-483-00	CARBON	2.7K 5% 1/4W		
FA5 1-508-767-00	5P PLUG			R630 1-246-484-00	CARBON	3K 5% 1/4W		
FA6 1-560-123-00	PLUG, CONNECTOR (2.5MM)	3P		R631 1-246-477-00	CARBON	1.5K 5% 1/4W		
FA7 1-560-123-00	PLUG, CONNECTOR (2.5MM)	3P		R631 1-246-479-00	CARBON	1.8K 5% 1/4W		
<u>FUSE</u>								
F610 1-532-259-00	TIME-LAG FUSE 1.6A			R631 1-246-480-00	CARBON	2K 5% 1/4W		
F611 1-532-259-00	TIME-LAG FUSE 1.6A			R631 1-246-481-00	CARBON	2.2K 5% 1/4W		
F612 1-532-259-00	TIME-LAG FUSE 1.6A			R631 1-246-482-00	CARBON	2.4K 5% 1/4W		
<u>TRANSISTOR</u>								
Q610 8-729-238-32	TRANSISTOR 2SC2383			R631 1-246-483-00	CARBON	2.7K 5% 1/4W		
Q611 8-729-309-06	TRANSISTOR 2SC1890A			R631 1-246-484-00	CARBON	3K 5% 1/4W		
<u>WIREWOUND</u>								
F632 1-217-305-00	WIREWOUND			R632 1-217-305-00	WIREWOUND	39 10% 5W F		
R633 1-246-489-00	CARBON			R633 1-246-489-00	CARBON	4.7K 5% 1/4W		
R634 1-246-489-00	CARBON			R634 1-246-489-00	CARBON	4.7K 5% 1/4W		
R635 1-247-037-00	CARBON			R635 1-247-037-00	CARBON	390 5% 1/8W F		
R640 1-213-161-00	METAL			R640 1-213-161-00	METAL	33K 5% 1W F		
R641 1-213-161-00	METAL			R641 1-213-161-00	METAL	33K 5% 1W F		

0621 =

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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CAPACITORS	RESISTORS	COILS
MF : μF , PF : $\mu\mu\text{F}$	All resistors are in ohms	MMH : mH , UH : μH

F A C D

Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
R642	1-246-497-00	CARBON	10K 5% 1/4W	R790	1-206-439-00	METAL 1 5% 2W	F
R643	1-246-521-00	CARBON	100K 5% 1/4W			<u>VARIABLE RESISTOR</u>	
R644	1-246-509-00	CARBON	33K 5% 1/4W				
R645	1-246-521-00	CARBON	100K 5% 1/4W				
R646	1-246-497-00	CARBON	10K 5% 1/4W				
R647	1-246-497-00	CARBON	10K 5% 1/4W	RV780	1-224-123-00	RES, ADJ, CARBON 1M	
				RV781	1-224-173-00	RES, ADJ, CARBON 2M	
						<u>SPARK GAP</u>	
RV610	1-226-819-00	RES, ADJ, CARBON 1K		SG780	1-519-063-XX	DISCHARGING GAP	
RV620	1-226-819-00	RES, ADJ, CARBON 1K		SG781	1-519-063-XX	DISCHARGING GAP	
RV621	1-226-819-00	RES, ADJ, CARBON 1K		SG782	1-519-063-XX	DISCHARGING GAP	
				SG783	1-519-063-XX	DISCHARGING GAP	
				SG784	1-519-063-XX	DISCHARGING GAP	
						<u>THERMISTOR</u>	
TH610	1-800-070-XX	THERMISTOR TH-4700					
						<u>POST PIN</u>	
TP91	1-536-354-00	POST PIN					
TP92	1-536-354-00	POST PIN					
TP93	1-536-354-00	POST PIN					
						<u>SPACER, MICA</u>	
						<u>BUSHING, (B)</u>	
						<u>SPACER, MICA (4) MD-17</u>	
						<u>RETAINER (MD-17), TRANSISTOR</u>	
						<u>RETAINER (T0-3), TRANSISTOR</u>	
						<u>CAPACITOR</u>	
				C801	1-102-973-00	CERAMIC 100PF 5% 50V	
				C802	1-108-429-00	MYLAR 0.047MF 10% 200V	
				C803	1-102-232-00	CERAMIC 470PF 20% 500V	
				C804	1-108-371-00	MYLAR 0.0033MF 10% 100V	
				C805	1-108-377-00	MYLAR 0.01MF 10% 100V	
				C806	1-102-232-00	CERAMIC 470PF 20% 500V	
				C807	1-108-377-00	MYLAR 0.01MF 10% 100V	
				C809	1-102-244-00	CERAMIC 220PF 10% 500V	
				C810	1-102-249-00	CERAMIC 680PF 20% 2KV	
				C811	1-130-692-00	FILM 0.014MF 3% 1.4KV	
				C812	1-130-067-00	FILM 0.045MF 3% 1.5KV	
				C813	1-130-068-00	FILM 0.067MF 3% 1KV	
				C814	1-102-244-00	CERAMIC 220PF 10% 500V	
				C815	1-108-373-00	MYLAR 0.0047MF 10% 100V	
				C816	1-108-365-00	MYLAR 0.001MF 10% 100V	
				C817	1-102-824-00	CERAMIC 430PF 5% 50V	
				C818	1-108-365-00	MYLAR 0.001MF 10% 100V	
				C820	1-123-329-00	ELECT 10MF 20% 25V	
				C821	1-108-433-00	MYLAR 0.1MF 10% 200V	
				C823	1-123-380-00	ELECT 1MF 20% 50V	
				C825	1-108-377-00	MYLAR 0.01MF 10% 100V	
				C826	1-121-999-00	ELECT 10MF 160V	
				C827	1-121-757-00	ELECT 33MF 160V	
				C828	1-108-377-00	MYLAR 0.01MF 10% 100V	
				C831	1-102-973-00	CERAMIC 100PF 5% 50V	
				C832	1-123-360-00	ELECT 100MF 20% 50V	
				C833	1-108-549-00	MYLAR 0.68MF 10% 200V	
				C834	1-108-389-00	MYLAR 0.1MF 10% 100V	
				C835	1-123-026-00	ELECT 2.2MF 20% 160V	
				C836	1-108-429-00	MYLAR 0.047MF 10% 200V	

NOTE:

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

MF : μ F, PF : $\mu\mu$ F

RESISTORS

All resistors are in ohms

COILS

MMH : mH, UH : μ H

COILS

F : nonflammable

Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
C837	1-102-030-00	CERAMIC 330PF 10% 500V		D11	4:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
C838	1-108-369-00	MYLAR 0.0022MF 10% 100V		D12	4:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
C839	1-123-381-00	ELECT 2.2MF 20% 50V					
C840	1-123-381-00	ELECT 2.2MF 20% 50V					
C841	1-108-385-00	MYLAR 0.047MF 10% 100V					
C842	1-102-232-00	CERAMIC 470PF 20% 500V		D801	=>8-719-911-19	DIODE ISS119	
C843	1-130-330-00	FILM 1.4MF 5% 200V		D802	=>8-719-911-19	DIODE ISS119	
C844	1-130-157-00	FILM 1MF 5% 200V		D803	=>8-719-100-02	DIODE 10E2	
C845	1-130-179-00	FILM 2MF 5% 200V		D804	=>8-719-305-15	DIODE GH3F	
C846	1-108-389-00	MYLAR 0.1MF 10% 100V		D807	=>8-719-911-19	DIODE ISS119	
C847	1-129-886-00	FILM 0.0068MF 5% 1.5KV		D808	=>8-719-911-19	DIODE ISS119	
C848	1-123-333-00	ELECT 100MF 20% 16V		D809	8-719-300-70	DIODE RH1C	
C849	1-123-333-00	ELECT 100MF 20% 16V		D810	8-719-300-70	DIODE RH1C	
C850	1-123-362-00	ELECT 330MF 20% 50V		D812	=>8-719-911-19	DIODE ISS119	
C851	1-123-362-00	ELECT 330MF 20% 50V		D813	=>8-719-911-19	DIODE ISS119	
C852	1-123-362-00	ELECT 330MF 20% 50V		D814	=>8-719-911-19	DIODE ISS119	
C853	1-102-219-00	CERAMIC 680PF 20% 1KV		D816	=>8-719-931-05	DIODE EQBO1-05	
C854	1-123-253-00	ELECT 22MF 160V		D818	=>8-719-911-19	DIODE ISS119	
C860	1-123-330-00	ELECT 22MF 16V		D819	=>8-719-911-19	DIODE ISS119	
C861	1-123-329-00	ELECT 10MF 20% 25V		D820	8-719-928-08	DIODE ERD28-08S	
C864	1-108-423-00	MYLAR 0.015MF 10% 200V		D821	8-719-901-19	DIODE V11N	
C865	1-123-318-00	ELECT 33MF 20% 16V		D822	=>8-719-305-15	DIODE GH3F	
C866	1-108-377-00	MYLAR 0.01MF 10% 100V		D823	8-719-300-70	DIODE RH1C	
C867	1-108-393-00	MYLAR 0.22MF 10% 100V		D824	8-719-300-70	DIODE RH1C	
C870	1-108-385-00	MYLAR 0.047MF 10% 100V		D825	=>8-719-911-19	DIODE ISS119	
C871	1-108-383-00	MYLAR 0.033MF 10% 100V		D826	=>8-719-911-19	DIODE ISS119	
C872	1-108-385-00	MYLAR 0.047MF 10% 100V		D827	=>8-719-100-02	DIODE 10E2	
C873	1-108-385-00	MYL					

D

Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
L809	1-421-364-00	COIL, FERRITE CHOKE PCC		R580	1-246-489-00	CARBON	4.7K 5% 1/4W	R853	1-213-146-00	METAL	1.8K 5% 1W F	T801	1-437-078-00	TRANSFORMER	
L810	1-459-111-00	COIL, DRAM CORE (CDI) 10MH		R581	1-212-364-00	METAL	2.2 5% 1W F	R854	1-206-672-00	METAL	2.2K 5% 2W F	T802	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
L811	1-407-780-00	COIL, SPOOK CHOKE 3.3MH		R582	1-213-129-00	METAL	68 5% 1W F	R855	1-206-459-00	METAL	6.8 5% 2W F	T803	1-439-282-00	TRANSFORMER, FERRITE (LOT)	
L812	1-407-780-00	COIL, SPOOK CHOKE 3.3MH		R583	1-246-481-00	CARBON	2.2K 5% 1/4W	R857	1-212-361-00	METAL	1.2 5% 1W F	T804	1-439-241-00	TRANSFORMER, HORIZONTAL OUTPUT	
L813	1-408-243-00	MICRO INDUCTOR 12MMH		R584	1-246-497-00	CARBON	10K 5% 1/4W	R858	1-212-364-00	METAL	2.2 5% 1W F				
L814	1-408-160-00	MICRO INDUCTOR 15MMH		R585	1-246-469-00	CARBON	680 5% 1/4W	R859	1-213-130-00	METAL	82 5% 1W F				
		TRANSISTOR		R586	1-246-499-00	CARBON	12K 5% 1/4W	R860	1-246-979-00	CARBON	1.2 5% 1/8W F				
				R587	1-246-481-00	CARBON	2.2K 5% 1/4W	R861	1-246-979-00	CARBON	1.2 5% 1/8W F				
Q516	8-763-613-00	TRANSISTOR 2SC1810		R590	1-246-537-00	CARBON	470K 5% 1/4W	R862	1-246-979-00	CARBON	1.2 5% 1/8W F				
Q801	=>8-729-178-54	TRANSISTOR 2SC2785		R591	1-246-497-00	CARBON	10K 5% 1/4W	R863	1-246-783-00	CARBON	1K 5% 1/8W F				
Q802	=>8-729-178-54	TRANSISTOR 2SC2785		R592	1-246-497-00	CARBON	10K 5% 1/4W	R864	1-246-497-00	CARBON	10K 5% 1/4W				
Q803	8-765-012-20	TRANSISTOR 2SC1811		R801	1-246-489-00	CARBON	4.7K 5% 1/4W	R865	1-246-979-00	CARBON	1.2 5% 1/8W F				
Q804	=>8-729-341-34	TRANSISTOR 2SC1413A		R804	1-206-467-00	METAL	15 5% 2W F	R866	1-246-449-00	CARBON	100 5% 1/4W				
Q805	=>8-729-178-54	TRANSISTOR 2SC2785		R805	1-246-463-00	CARBON	390 5% 1/4W	R867	1-211-409-00	CARBON	10 5% 1/8W F				
Q806	8-729-117-54	TRANSISTOR 2SA1175		R807	1-246-491-00	CARBON	5.6K 5% 1/4W	R869	1-211-409-00	CARBON	10 5% 1/8W F				
Q808	8-729-313-82	TRANSISTOR 2SD1138		R808	1-246-518-00	CARBON	75K 5% 1/4W	R871	1-246-451-00	CARBON	120 5% 1/4W				
Q809	8-729-387-36	TRANSISTOR 2SC867A		R809	1-246-521-00	CARBON	100K 5% 1/4W	R872	1-246-505-00	CARBON	22K 5% 1/4W				
Q810	=>8-729-195-92	TRANSISTOR 2SC2959		R810	1-246-505-00	CARBON	22K 5% 1/4W	R873	1-246-497-00	CARBON	10K 5% 1/4W				
Q813	=>8-729-178-54	TRANSISTOR 2SC2785		R811	1-211-427-00	CARBON	100 5% 1/8W F	R874	1-246-481-00	CARBON	2.2K 5% 1/4W				
Q814	=>8-729-178-54	TRANSISTOR 2SC2785		R812	1-246-513-00	CARBON	47K 5% 1/4W	R875	1-246-501-00	CARBON	15K 5% 1/4W				
Q815	=>8-729-178-54	TRANSISTOR 2SC2785		R813	1-246-497-00	CARBON	10K 5% 1/4W	R876	1-246-481-00	CARBON	2.2K 5% 1/4W				
Q816	8-760-612-10	TRANSISTOR 2SA773-12		R820	1-246-473-00	CARBON	1K 5% 1/4W	R877	1-246-458-00	CARBON	240 5% 1/4W				
Q817	=>8-729-178-54	TRANSISTOR 2SC2785		R821	1-246-481-00	CARBON	2.2K 5% 1/4W	R878	1-246-481-00	CARBON	2.2K 5% 1/4W				
Q818	=>8-729-178-54	TRANSISTOR 2SC2785		R822	1-246-473-00	CARBON	1K 5% 1/4W	R879	1-246-981-00	CARBON	4.7 5% 1/8W F				
Q819	8-726-420-00	THYRISTOR SG264A		R823	1-246-494-00	CARBON	7.5K 5% 1/4W	R880	1-246-981-00	CARBON	4.7 5% 1/8W F				
Q820	=>8-729-341-34	TRANSISTOR 2SC1413A		R824	1-246-504-00	CARBON	20K 5% 1/4W	R881	1-246-979-00	CARBON	1.2 5% 1/8W F				
Q821	8-729-117-54	TRANSISTOR 2SA1175		R825	1-246-491-00	CARBON	5.6K 5% 1/4W	R882	1-246-457-00	CARBON	220 5% 1/4W				
Q822	8-729-117-54	TRANSISTOR 2SA1175		R826	1-246-425-00	CARBON	10 5% 1/4W	R883	1-211-409-00	CARBON	10 5% 1/4W				
Q823	8-729-117-54	TRANSISTOR 2SA1175		R827	1-213-129-00	METAL	68 5% 1W F	R885	1-246-491-00	CARBON	5.6K 5% 1/4W				
Q824	8-729-313-82	TRANSISTOR 2SD1138		R828	1-246-479-00	CARBON	1.8K 5% 1/4W	R886	1-246-497-00	CARBON	10K 5% 1/4W				
Q825	8-729-386-12	TRANSISTOR 2SB861		R829	1-213-131-00	METAL	100 5% 1W F	R887	1-246-491-00	CARBON	5.6K 5% 1/4W				
Q826	=>8-729-195-92	TRANSISTOR 2SC2959		R830	1-246-979-00	CARBON	1.2 5% 1/8W F	R888	1-246-487-00	CARBON	3.9K 5% 1/4W				
Q827	=>8-729-178-54	TRANSISTOR 2SC2785		R831	1-246-979-00	CARBON	1.2 5% 1/8W F	R889	1-213-141-00	METAL	680 5% 1W F				
Q828	=>8-719-901-24	THYRISTOR CV12E		R832	1-211-409-00	CARBON	10 5% 1/8W F	R890	1-246-473-00	CARBON	1K 5% 1/4W				
Q829	=>8-719-901-24	THYRISTOR CV12E		R833	1-206-451-00	METAL	3.3 5% 2W F	R891	1-214-150-00	METAL	5.6K 1% 1/4W				
Q831	=>8-729-178-54	TRANSISTOR 2SC2785		R834	1-213-139-00	METAL	470 5% 1W F	R892	1-214-156-00	METAL	10K 1% 1/4W				
Q832	=>8-729-178-54	TRANSISTOR 2SC2785		R835	1-213-143-00	METAL	1K 5% 1W F	R893	1-246-491-00	CARBON	5.6K 5% 1/4W				
Q833	=>8-729-306-92	TRANSISTOR 2SD669A		R837	1-246-507-00	CARBON	27K 5% 1/4W	R894	1-214-156-00	METAL	10K 1% 1/4W				
Q834	=>8-729-304-92	TRANSISTOR 2SB649A		R838	1-246-507-00	CARBON	27K 5% 1/4W	R895	1-214-156-00	METAL	10K 1% 1/4W				
Q871	8-729-309-06	TRANSISTOR 2SC1890A		R839	1-246-487-00	CARBON	3.9K 5% 1/4W	R896	1-224-646-XX	RES, ADJ, CARBON	22K				
		RESISTOR		R840	1-246-487-00	CARBON	3.9K 5% 1/4W	R897	1-224-648-XX	RES, ADJ, CARBON	100K				
R556	1-206-664-00	METAL	1K 5% 2W F	R841	1-246-486-00	CARBON	3.6K 5% 1/4W	R898	1-224-646-XX	RES, ADJ, CARBON	22K				
R571	1-246-449-00	CARBON	100 5% 1/4W	R843	1-246-473-00	CARBON	10K 5% 1/4W	R899	1-224-647-XX	RES, ADJ, CARBON	47K				
R572	1-213-144-00	METAL	1.2K 5% 1W F	R844	1-246-463-00	CARBON	390 5% 1/4W	R900	1-224-648-XX	RES, ADJ, CARBON	100K				
R573	1-206-680-00	METAL	4.7K 5% 2W F	R845	1-246-521-00	C									

V

Ref.No	Part No	Description			Remark	Ref.No	Part No	Description		Remark
C94	1-108-567-00	MYLAR	0.0033MF	5%	50V	C150	1-101-006-00	CERAMIC	0.047MF	50V
C95	1-108-579-00	MYLAR	0.01MF	5%	50V	C151	1-101-006-00	CERAMIC	0.047MF	50V
C96	1-123-356-00	ELECT	10MF	20%	16V	C152	1-101-006-00	CERAMIC	0.047MF	50V
C97	1-102-114-00	CERAMIC	470PF	10%	50V	C153	1-101-006-00	CERAMIC	0.047MF	50V
C98	1-108-845-00	MYLAR	0.047MF	10%	50V	C154	1-101-006-00	CERAMIC	0.047MF	50V
C100	1-102-978-00	CERAMIC	220PF	5%	50V	C155	1-101-006-00	CERAMIC	0.047MF	50V
C101	1-102-971-00	CERAMIC	82PF	5%	50V	C156	1-123-332-00	ELECT	47MF	20%
C102	1-102-529-00	CERAMIC	100PF	5%	50V	C157	1-123-356-00	ELECT	10MF	20%
C103	1-102-529-00	CERAMIC	100PF	5%	50V	C160	1-101-006-00	CERAMIC	0.047MF	50V
C104	1-102-973-00	CERAMIC	100PF	5%	50V	C161	1-101-006-00	CERAMIC	0.047MF	50V
C105	1-101-361-00	CERAMIC	150PF	5%	50V	C501	1-108-389-00	MYLAR	0.1MF	10%
C106	1-102-978-00	CERAMIC	220PF	5%	50V	C502	1-102-074-00	CERAMIC	0.001MF	50V
C107	1-102-531-00	CERAMIC	150PF	5%	50V	C503	1-108-389-00	MYLAR	0.1MF	100V
C108	1-102-531-00	CERAMIC	150PF	5%	50V	C504	1-123-381-00	ELECT	2.2MF	20%
C109	1-102-978-00	CERAMIC	220PF	5%	50V	C506	1-130-457-00	FILM	0.1MF	100V
C110	1-102-531-00	CERAMIC	150PF	5%	50V	C507	1-108-381-00	MYLAR	0.022MF	10%
C111	1-102-531-00	CERAMIC	150PF	5%	50V	C508	1-108-385-00	MYLAR	0.047MF	100V
C112	1-102-978-00	CERAMIC	220PF	5%	50V	C510	1-108-383-00	MYLAR	0.033MF	10%
C113	1-102-529-00	CERAMIC	100PF	5%	50V	C511	1-108-373-00	MYLAR	0.0047MF	100V
C114	1-102-978-00	CERAMIC	220PF	5%	50V	C512	1-123-380-00	ELECT	1MF	20%
C115	1-102-531-00	CERAMIC	150PF	5%	50V	C513	1-123-381-00	ELECT	2.2MF	20%
C116	1-101-006-00	CERAMIC	0.047MF		50V	C514	1-108-381-00	MYLAR	0.022MF	100V
C118	1-101-006-00	CERAMIC	0.047MF		50V	C515	1-108-381-00	MYLAR	0.022MF	100V
C119	1-102-978-00	CERAMIC	220PF	5%	50V	C516	1-102-114-00	CERAMIC	470PF	10%
C120	1-101-006-00	CERAMIC	0.047MF		50V	C517	1-123-369-00	ELECT	4.7MF	20%
C121	1-101-006-00	CERAMIC	0.047MF		50V	C518	1-123-332-00	ELECT	47MF	20%
C122	1-101-006-00	CERAMIC	0.047MF		50V	C519	1-106-196-00	MYLAR	0.01MF	5%
C123	1-102-978-00	CERAMIC	220PF	5%	50V	C520	1-129-701-00	FILM	0.01MF	5%
C124	1-102-978-00	CERAMIC	220PF	5%	50V	C521	1-108-365-00	MYLAR	0.001MF	10%
C125	1-102-978-00	CERAMIC	220PF	5%	50V	C522	1-102-983-00	CERAMIC	220PF	10%
C126	1-102-978-00	CERAMIC	220PF	5%	50V	C524	1-101-004-00	CERAMIC	0.01MF	50V
C127	1-102-978-00	CERAMIC	220PF	5%	50V	C525	1-101-004-00	CERAMIC	0.01MF	50V
C128	1-102-852-00	CERAMIC	47PF	5%	50V	C526	1-101-004-00	CERAMIC	0.01MF	50V
C130	1-123-333-00	ELECT	100MF	20%	16V	C527	1-101-004-00	CERAMIC	0.01MF	50V
C131	1-123-333-00	ELECT	100MF	20%	16V	C528	1-123-379-00	ELECT	0.47MF	20%
C132	1-123-333-00	ELECT	100MF	20%	16V	C531	1-108-381-00	MYLAR	0.022MF	100V
C133	1-123-333-00	ELECT	100MF	20%	16V	C538	1-121-806-00	ELECT	10MF	20%
C134	1-123-333-00	ELECT	100MF	20%	16V	C539	1-121-806-00	ELECT	10MF	20%
C135	1-101-006-00	CERAMIC	0.047MF		50V	C540	1-121-806-00	ELECT	10MF	20%
C136	1-101-006-00	CERAMIC	0.047MF		50V	C541	1-101-004-00	CERAMIC	0.01MF	50V
C137	1-101-006-00	CERAMIC	0.047MF		50V	C542	1-101-004-00	CERAMIC	0.01MF	50V
C138	1-101-006-00	CERAMIC	0.047MF		50V	C543	1-101-004-00	CERAMIC	0.01MF	50V
C139	1-101-006-00	CERAMIC	0.047MF		50V	C544	1-102-529-00	CERAMIC	100PF	5%
C140	1-101-006-00	CERAMIC	0.047MF		50V	C545	1-102-529-00	CERAMIC	100PF	5%
C141	1-101-006-00	CERAMIC	0.047MF		50V	C546	1-108-385-00	MYLAR	0.047MF	100V
C142	1-101-006-00	CERAMIC	0.047MF		50V	C547	1-123-356-00	ELECT	10MF	20%
C143	1-101-006-00	CERAMIC	0.047MF		50V	C548	1-121-806-00	ELECT	10MF	20%
C144	1-101-006-00	CERAMIC	0.047MF		50V	C550	1-102-529-00	CERAMIC	100PF	5%
C145	1-101-006-00	CERAMIC	0.047MF		50V	C551	1-106-196-00	MYLAR	0.01MF	100V
C146	1-101-006-00	CERAMIC	0.047MF		50V	C553	1-101-003-00	CERAMIC	0.0047MF	50V
C147	1-101-006-00	CERAMIC	0.047MF		50V	C555	1-101-003-00	CERAMIC	0.0047MF	50V
C148	1-101-006-00	CERAMIC	0.047MF		50V	C556	1-123-333-00	ELECT	100MF	20%
C149	1-101-006-00	CERAMIC	0.047MF		50V	C557	1-108-383-00	MYLAR	0.033MF	100V

NOTE

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

- \Rightarrow : Due to standardization, interchangeable replacement may be substituted for part specified in the diagrams.

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

RESISTORS

COILS
are in ohms • MMH : mH, UH : μ H

NOTE.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

- \Rightarrow : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

RESISTORS
1 resistors are in ohms
: nonflammable

COILS

V

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q504 =>8-729-178-54	TRANSISTOR 2SC2785			R83	1-246-457-00	CARBON	220 5% 1/4W	R136	1-214-173-00	METAL	51K 1% 1/4W	R202	1-246-497-00	CARBON	10K 5% 1/4W
Q505 =>8-729-178-54	TRANSISTOR 2SC2785			R84	1-246-493-00	CARBON	6.8K 5% 1/4W	R137	1-246-497-00	CARBON	10K 5% 1/4W	R203	1-246-497-00	CARBON	10K 5% 1/4W
Q506 =>8-729-178-54	TRANSISTOR 2SC2785			R85	1-246-493-00	CARBON	6.8K 5% 1/4W	R138	1-246-497-00	CARBON	10K 5% 1/4W	R204	1-246-505-00	CARBON	22K 5% 1/4W
Q507 =>8-729-178-54	TRANSISTOR 2SC2785			R86	1-246-493-00	CARBON	6.8K 5% 1/4W	R139	1-246-516-00	CARBON	62K 5% 1/4W	R205	1-246-497-00	CARBON	10K 5% 1/4W
Q508 =>8-729-178-54	TRANSISTOR 2SC2785			R87	1-246-503-00	CARBON	18K 5% 1/4W	R140	1-246-493-00	CARBON	6.8K 5% 1/4W	R206	1-246-505-00	CARBON	22K 5% 1/4W
Q509 =>8-729-178-54	TRANSISTOR 2SC2785			R88	1-246-505-00	CARBON	22K 5% 1/4W	R143	1-246-497-00	CARBON	10K 5% 1/4W	R207	1-246-497-00	CARBON	10K 5% 1/4W
Q510 =>8-729-178-54	TRANSISTOR 2SC2785			R89	1-246-481-00	CARBON	2.2K 5% 1/4W	R144	1-246-497-00	CARBON	10K 5% 1/4W	R208	1-246-505-00	CARBON	22K 5% 1/4W
Q511 =>8-729-178-54	TRANSISTOR 2SC2785			R90	1-246-515-00	CARBON	56K 5% 1/4W	R145	1-246-516-00	CARBON	62K 5% 1/4W	R209	1-246-497-00	CARBON	10K 5% 1/4W
Q512 =>8-729-178-54	TRANSISTOR 2SC2785			R91	1-246-491-00	CARBON	5.6K 5% 1/4W	R146	1-246-521-00	CARBON	100K 5% 1/4W	R210	1-246-497-00	CARBON	10K 5% 1/4W
Q513 =>8-729-178-54	TRANSISTOR 2SC2785			R92	1-246-481-00	CARBON	2.2K 5% 1/4W	R147	1-246-509-00	CARBON	33K 5% 1/4W	R211	1-246-497-00	CARBON	10K 5% 1/4W
Q514 =>8-729-178-54	TRANSISTOR 2SC2785			R93	1-246-503-00	CARBON	18K 5% 1/4W	R148	1-246-505-00	CARBON	22K 5% 1/4W	R212	1-246-505-00	CARBON	22K 5% 1/4W
Q515 =>8-729-178-54	TRANSISTOR 2SC2785			R94	1-246-505-00	CARBON	22K 5% 1/4W	R149	1-246-505-00	CARBON	22K 5% 1/4W	R213	1-246-497-00	CARBON	10K 5% 1/4W
Q516 =>8-719-117-54	TRANSISTOR 2SA1175			R95	1-246-449-00	CARBON	100 5% 1/4W	R150	1-246-509-00	CARBON	33K 5% 1/4W	R214	1-246-497-00	CARBON	10K 5% 1/4W
Q518 =>8-729-178-54	TRANSISTOR 2SC2785			R96	1-246-441-00	CARBON	47 5% 1/4W	R151	1-246-501-00	CARBON	15K 5% 1/4W	R215	1-246-505-00	CARBON	22K 5% 1/4W
Q519 =>8-729-178-54	TRANSISTOR 2SC2785			R97	1-246-507-00	CARBON	27K 5% 1/4W	R154	1-246-497-00	CARBON	10K 5% 1/4W	R216	1-246-497-00	CARBON	10K 5% 1/4W
Q520 =>8-719-117-54	TRANSISTOR 2SA1175			R98	1-246-497-00	CARBON	10K 5% 1/4W	R155	1-246-497-00	CARBON	10K 5% 1/4W	R217	1-246-497-00	CARBON	10K 5% 1/4W
Q521 =>8-729-178-54	TRANSISTOR 2SC2785			R99	1-246-473-00	CARBON	1K 5% 1/4W	R156	1-246-517-00	CARBON	68K 5% 1/4W	R218	1-246-505-00	CARBON	22K 5% 1/4W
Q522 =>8-729-178-54	TRANSISTOR 2SC2785			R100	1-214-149-00	METAL	5.1K 1% 1/4W	R157	1-246-497-00	CARBON	10K 5% 1/4W	R219	1-246-497-00	CARBON	10K 5% 1/4W
Q523 =>8-729-178-54	TRANSISTOR 2SC2785			R101	1-214-149-00	METAL	5.1K 1% 1/4W	R158	1-246-505-00	CARBON	22K 5% 1/4W	R221	1-246-497-00	CARBON	10K 5% 1/4W
<u>RESISTOR</u>															
R51	1-246-497-00	CARBON	10K 5% 1/4W	R103	1-246-483-00	CARBON	2.7K 5% 1/4W	R160	1-246-505-00	CARBON	22K 5% 1/4W	R223	1-246-497-00	CARBON	10K 5% 1/4W
R52	1-246-517-00	CARBON	6.8K 5% 1/4W	R104	1-246-501-00	CARBON	15K 5% 1/4W	R161	1-246-497-00	CARBON	10K 5% 1/4W	R224	1-246-497-00	CARBON	10K 5% 1/4W
R53	1-246-473-00	CARBON	1K 5% 1/4W	R105	1-246-473-00	CARBON	1K 5% 1/4W	R162	1-246-497-00	CARBON	10K 5% 1/4W	R225	1-246-485-00	CARBON	3.3K 5% 1/4W
R54	1-246-507-00	CARBON	27K 5% 1/4W	R106	1-246-501-00	CARBON	15K 5% 1/4W	R163	1-246-497-00	CARBON	10K 5% 1/4W	R226	1-246-505-00	CARBON	22K 5% 1/4W
R55	1-246-489-00	CARBON	4.7K 5% 1/4W	R107	1-246-458-00	CARBON	240 5% 1/4W	R164	1-246-505-00	CARBON	22K 5% 1/4W	R230	1-246-529-00	CARBON	220K 5% 1/4W
R56	1-246-449-00	CARBON	100 5% 1/4W	R108	1-246-425-00	CARBON	10 5% 1/4W	R165	1-246-497-00	CARBON	10K 5% 1/4W	R231	1-246-537-00	CARBON	470K 5% 1/4W
R57	1-246-491-00	CARBON	5.6K 5% 1/4W	R109	1-246-460-00	CARBON	300 5% 1/4W	R166	1-214-179-00	METAL	91K 1% 1/4W	R232	1-246-507-00	CARBON	27K 5% 1/4W
R58	1-246-479-00	CARBON	1.8K 5% 1/4W	R110	1-246-473-00	CARBON	1K 5% 1/4W	R167	1-246-497-00	CARBON	10K 5% 1/4W	R233	1-246-497-00	CARBON	10K 5% 1/4W
R59	1-246-491-00	CARBON	5.6K 5% 1/4W	R111	1-246-531-00	CARBON	270K 5% 1/4W	R168	1-246-505-00	CARBON	22K 5% 1/4W	R234	1-246-497-00	CARBON	10K 5% 1/4W
R60	1-246-497-00	CARBON	10K 5% 1/4W	R112	1-246-531-00	CARBON	270K 5% 1/4W	R169	1-246-497-00	CARBON	10K 5% 1/4W	R501	1-246-491-00	CARBON	5.6K 5% 1/4W
R61	1-246-517-00	CARBON	6.8K 5% 1/4W	R113	1-246-497-00	CARBON	10K 5% 1/4W	R170	1-246-515-00	CARBON	56K 5% 1/4W	R502	1-246-501-00	CARBON	15K 5% 1/4W
R62	1-246-473-00	CARBON	1K 5% 1/4W	R114	1-246-489-00	CARBON	4.7K 5% 1/4W	R171	1-246-511-00	CARBON	39K 5% 1/4W	R503	1-246-505-00	CARBON	22K 5% 1/4W
R63	1-246-507-00	CARBON	27K 5% 1/4W	R115	1-246-462-00	CARBON	360 5% 1/4W	R172	1-246-505-00	CARBON	22K 5% 1/4W	R504	1-246-491-00	CARBON	5.6K 5% 1/4W
R64	1-246-489-00	CARBON	4.7K 5% 1/4W	R116	1-246-473-00	CARBON	1K 5% 1/4W	R173	1-246-497-00	CARBON	10K 5% 1/4W	R505	1-246-491-00	CARBON	5.6K 5% 1/4W
R65	1-246-449-00	CARBON	100 5% 1/4W	R117	1-246-467-00	CARBON	560 5% 1/4W	R174	1-246-505-00	CARBON	22K 5% 1/4W	R506	1-246-505-00	CARBON	22K 5% 1/4W
R66	1-246-479-00	CARBON	1.8K 5% 1/4W	R118	1-246-477-00	CARBON	1.5K 5% 1/4W	R175	1-246-485-00	CARBON	3.3K 5% 1/4W	R507	1-246-507-00	CARBON	27K 5% 1/4W
R67	1-246-505-00	CARBON	22K 5% 1/4W	R119	1-246-490-00	CARBON	5.1K 5% 1/4W	R176	1-246-485-00	CARBON	3.3K 5% 1/4W	R508	1-246-513-00	CARBON	47K 5% 1/4W
R68	1-246-503-00	CARBON	18K 5% 1/4W	R120	1-246-501-00	CARBON	15K 5% 1/4W	R177	1-246-505-00	CARBON</td					

V

V H A H B

Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark				
R525	1-246-497-00	CARBON	10K 5% 1/4W	R579	1-246-518-00	CARBON	75K 5% 1/4W				
R526	1-246-537-00	CARBON	470K 5% 1/4W	R580	1-246-473-00	CARBON	1K 5% 1/4W				
R527	1-246-495-00	CARBON	8.2K 5% 1/4W	R581	1-246-457-00	CARBON	220 5% 1/4W				
R528	1-246-479-00	CARBON	1.8K 5% 1/4W	R582	1-246-457-00	CARBON	220 5% 1/4W				
R529	1-246-492-00	CARBON	6.2K 5% 1/4W	R583	1-246-490-00	CARBON	5.1K 5% 1/4W				
R530	1-246-501-00	CARBON	15K 5% 1/4W	R584	1-246-505-00	CARBON	22K 5% 1/4W				
R531	1-246-490-00	CARBON	5.1K 5% 1/4W	R585	1-246-497-00	CARBON	10K 5% 1/4W				
R532	1-246-458-00	CARBON	240 5% 1/4W	R586	1-246-512-00	CARBON	43K 5% 1/4W				
R533	1-246-509-00	CARBON	33K 5% 1/4W	R587	1-246-505-00	CARBON	22K 5% 1/4W				
R534	1-246-489-00	CARBON	4.7K 5% 1/4W	R588	1-246-501-00	CARBON	15K 5% 1/4W				
R535	1-246-497-00	CARBON	10K 5% 1/4W	R589	1-246-513-00	CARBON	47K 5% 1/4W				
R536	1-246-521-00	CARBON	100K 5% 1/4W	R590	1-246-525-00	CARBON	150K 5% 1/4W				
R537	1-246-513-00	CARBON	47K 5% 1/4W	R591	1-246-505-00	CARBON	22K 5% 1/4W				
R538	1-246-509-00	CARBON	33K 5% 1/4W	R592	1-246-497-00	CARBON	10K 5% 1/4W				
R539	1-246-473-00	CARBON	1K 5% 1/4W	R593	1-246-493-00	CARBON	6.8K 5% 1/4W				
R540	1-246-489-00	CARBON	4.7K 5% 1/4W	R594	1-246-489-00	CARBON	4.7K 5% 1/4W				
R541	1-246-475-00	CARBON	1.2K 5% 1/4W	R595	1-246-521-00	CARBON	100K 5% 1/4W				
R542	1-246-495-00	CARBON	8.2K 5% 1/4W	R596	1-246-497-00	CARBON	10K 5% 1/4W				
R543	1-246-513-00	CARBON	47K 5% 1/4W	R597	1-246-487-00	CARBON	3.9K 5% 1/4W				
R544	1-246-513-00	CARBON	47K 5% 1/4W	R598	1-246-489-00	CARBON	4.7K 5% 1/4W				
<u>VARIABLE RESISTOR</u>											
R545	1-246-505-00	CARBON	22K 5% 1/4W	RV51	1-224-647-XX	RES, ADJ, CARBON	47K				
R546	1-246-513-00	CARBON	47K 5% 1/4W	RV501	1-224-646-XX	RES, ADJ, CARBON	22K				
R547	1-246-513-00	CARBONITON	47K 5% 1/4W	RV502	1-224-646-XX	RES, ADJ, CARBON	22K				
R548	1-202-463-00	COMPOSITION	2.2M 5% 1/4W	RV503	1-226-819-00	RES, ADJ, CARBON	1K				
R549	1-246-513-00	CARBON	47K 5% 1/4W	RV504	1-224-641-XX	RES, ADJ, CARBON	470				
R550	1-246-513-00	CARBON	47K 5% 1/4W	RV505	1-224-640-XX	RES, ADJ, CARBON	330				
R551	1-246-525-00	CARBON	150K 5% 1/4W	RV506	1-224-646-XX	RES, ADJ, CARBON	22K				
R552	1-246-521-00	CARBON	100K 5% 1/4W	RV507	1-224-645-XX	RES, ADJ, CARBON	10K				
R554	1-246-489-00	CARBON	4.7K 5% 1/4W	RV508	1-224-644-XX	RES, ADJ, CARBON	3.3K				
R555	1-246-477-00	CARBON	1.5K 5% 1/4W	RV509	1-226-819-00	RES, ADJ, CARBON	1K				
R556	1-246-485-00	CARBON	3.3K 5% 1/4W	RV510	1-224-644-XX	RES, ADJ, CARBON	3.3K				
R557	1-246-513-00	CARBON	47K 5% 1/4W	RV511	1-224-646-XX	RES, ADJ, CARBON	22K				
R558	1-246-513-00	CARBON	47K 5% 1/4W	RV512	1-224-646-XX	RES, ADJ, CARBON	22K				
R559	1-246-513-00	CARBON	47K 5% 1/4W	RV513	1-224-646-XX	RES, ADJ, CARBON	22K				
R560	1-246-491-00	CARBON	5.6K 5% 1/4W	RV514	1-224-647-XX	RES, ADJ, CARBON	47K				
R561	1-246-485-00	CARBON	3.3K 5% 1/4W	RV515	1-224-644-XX	RES, ADJ, CARBON	4.7K				
R562	1-246-477-00	CARBON	1.5K 5% 1/4W	RV516	1-224-646-XX	RES, ADJ, CARBON	22K				
R563	1-246-506-00	CARBON	24K 5% 1/4W	RV517	1-224-640-XX	RES, ADJ, CARBON	330				
R564	1-246-493-00	CARBON	6.8K 5% 1/4W	RV518	1-224-645-XX	RES, ADJ, CARBON	10K				
<u>TERMISTOR</u>											
R566	1-246-499-00	CARBON	12K 5% 1/4W								
R567	1-246-479-00	CARBON	1.8K 5% 1/4W	<u>POST PIN</u>							
R568	1-246-486-00	CARBON	3.6K 5% 1/4W	TP31	1-536-354-00	POST PIN					
R569	1-246-439-00	CARBON	39 5% 1/4W	TP32	1-536-354-00	POST PIN					
R570	1-246-473-00	CARBON	1K 5% 1/4W	TP33	1-536-354-00	POST PIN					
R571	1-246-490-00	CARBON	5.1K 5% 1/4W	TP34	1-536-354-00	POST PIN					
R572	1-246-529-00	CARBON	220K 5% 1/4W	TP35	1-536-354-00	POST PIN					
R573	1-246-521-00	CARBON	100K 5% 1/4W	TP36	1-536-354-00	POST PIN					
R574	1-246-481-00	CARBON	2.2K 5% 1/4W								
R575	1-246-481-00	CARBON	2.2K 5% 1/4W								
R576	1-246-521-00	CARBON	100K 5% 1/4W								
R577	1-246-497-00	CARBON	10K 5% 1/4W								
R578	1-246-523-00	CARBON	120K 5% 1/4W								

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF : μ F, PF : $\mu\mu$ F

RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MMH : mH, UH : μ H

Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
TP86	1-536-354-00	POST PIN		TP87	1-536-354-00	POST PIN		R31	1-246-509-00	CARBON	33K 5% 1/4W
V1	8:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		V2	8:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R33	1-246-509-00	CARBON	33K 5% 1/4W
V3	8:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		V4	8:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R35	1-246-509-00	CARBON	33K 5% 1/4W
V5	8:1-508-742-00	PIN, CONNECTOR 3P		V6	8:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P		R37	1-246-509-00	CARBON	33K 5% 1/4W
V7	8:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		V8	8:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R39	1-246-509-00	CARBON	33K 5% 1/4W
V9	8:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		V10	8:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		R41	1-246-509-00	CARBON	33K 5% 1/4W
V11	8:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		V12	8:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		R43	1-246-509-00	CARBON	33K 5% 1/4W
V13	8:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		V14	8:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R50	1-246-497-00	CARBON	10K 5% 1/4W
V15	8:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P						R51	1-246-497-00	CARBON	10K 5% 1/4W
V16	8:1-560-123										

Hc X Z

Ref. No	Part No	Description	Remark
<u>RESISTOR</u>			
R11	1-246-473-00	CARBON 1K 5% 1/4W	
R12	1-246-473-00	CARBON 1K 5% 1/4W	
R13	1-246-473-00	CARBON 1K 5% 1/4W	
R14	1-246-497-00	CARBON 10K 5% 1/4W	
R15	1-246-473-00	CARBON 1K 5% 1/4W	

<u>VARIABLE RESISTOR</u>			
RV11	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV12	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV13	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV14	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV15	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV16	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV17	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV18	1-224-919-00	RES, ADJ, METAL FILM 5K	

SWITCH

S11	1-552-898-00	SWITCH, TOGGLE
S12	1-552-898-00	SWITCH, TOGGLE
S13	1-552-898-00	SWITCH, TOGGLE
S14	1-552-898-00	SWITCH, TOGGLE

*1-604-885-00 X BOARD

1-555-956-11 CONNECTOR ASSY (2.5MM) 2P

DIODE

D901 8-719-909-20 DIODE GL9NG2

C911	1-130-031-00	CAP, POLYPROPYLENE 0.22MF 400V
CN901	1-509-718-00	DIN 4P SOCKET
CN902	1-509-718-00	DIN 4P SOCKET

*1-604-884-00 Z BOARD

CONNECTOR

FA7 1-551-921-00 CONNECTOR ASSY 3P

NEON LAMPNL901 1-519-108-XX LAMP, NEON ASSY
NL902 1-519-108-XX LAMP, NEON ASSYMISCELLANEOUS1-452-032-00 MAGNET, DISC
1-452-112-42 NECK ASSY, CRT
1-452-146-00 MAGNET, BMC
1-453-081-00 HIGH-VOLTAGE BLOCK, DC
1-508-723-00 4P PLUG, DIN

1-509-774-43 CONNECTOR ASSY, 3P

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

=> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS MF : μ F, PF : $\mu\mu$ F
RESISTORS All resistors are in ohms MMH : mH, UH : μ H
COILS F : nonflammable

Ref. No	Part No	Description	Remark
R903	1-246-446-00	RES, CARBON 75	
R904	1-246-446-00	RES, CARBON 75	
R905	1-246-446-00	RES, CARBON 75	
R911	1-202-830-00	RES, SOLID 10K 1W	
R912	1-202-830-00	RES, SOLID 10K 1W	
RV901	1-226-687-00	RES, VAR 500	
RV902	1-224-619-00	RES, VAR, CARBON 5K	
RV903	1-224-259-00	RES, VAR, CARBON 5.0K	
S901	1-553-330-00	SWITCH, PUSH (POWER)	
S902	1-516-777-XX	SLIDE SWITCH	
S903	1-516-777-XX	SLIDE SWITCH	
S904	1-516-777-XX	SLIDE SWITCH	
T911	1-439-208-00	TRANSFORMER, FLYBACK	
T901	1-447-065-00	TRANSFORMER, POWER	
V901	1-38-301-05	13SNP (FINE PITCH) 1300B22	

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
1-508-723-00	4P PLUG, DIN	
3-701-360-00	LABEL, TACK	
3-701-631-00	BAG, POLYETHYLENE	
4-309-537-00	BAG, POLYETHYLENE	
4-353-603-00	PLATE, NUMBER	
4-353-646-00	INDIVIDUAL CARTON	
4-353-647-00	CUSHION (UPPER)	
4-353-648-00	CUSHION (LOWER)	
4-493-587-11	MANUAL, INSTRUCTION	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

=> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS MF : μ F, PF : $\mu\mu$ F
RESISTORS All resistors are in ohms MMH : mH, UH : μ H
COILS F : nonflammable

Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All resistors are in ohms MMH : mH, UH : μ H
COILS F : nonflammable

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	→
1.0					→	→
2.2					→	→
3.3					→	→
4.7				→	→	→
10						1-123-369-00
22					→	→
33	→		→	1-123-330-00	→	1-123-370-00
47	→		1-123-306-00	→	1-123-343-00	1-123-371-00
100	→		1-123-307-00	→	1-123-332-00	1-123-372-00
220	→		1-123-308-00	1-123-321-00	1-123-334-00	1-123-361-00
330	→		1-123-309-00	1-123-322-00	1-123-347-00	1-123-362-00
470	1-123-298-00		1-123-310-00	1-123-323-00	1-123-336-00	1-123-363-00
1000	1-123-299-00		1-123-311-00	1-123-324-00	1-123-337-00	1-123-377-00
2200	1-123-300-00		→	1-123-325-00	1-123-338-00	1-123-378-00
3300	1-123-301-00		1-123-313-00	1-123-326-00	1-123-339-00	
4700	1-123-302-00		1-123-314-00	1-123-327-00		
6800	1-123-303-00		1-123-315-00			
10000	1-123-304-00					

CAP. (μF)	RATING			
	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
PART No.	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

CERAMIC CAPACITORS

CAP. (pF)	RATING			
	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)
PART No.	PART No.	PART No.	PART No.	PART No.
0.5	1-101-837-00	22	1-102-959-00	150
0.75	1-101-586-00	24	1-102-960-00	160
1.0	1-102-934-00	27	1-102-961-00	180
1.5	1-101-576-00	30	1-102-962-00	200
2.0	1-102-935-00	33	1-102-963-00	220
3	1-102-936-00	36	1-102-964-00	240
4	1-102-937-00	39	1-102-965-00	270
5	1-102-942-00	43	1-102-966-00	300
6	1-102-943-00	47	1-101-880-00	330
7	1-102-944-00	51	1-101-882-00	360
8	1-102-945-00	56	1-101-884-00	390
9	1-102-946-00	62	1-101-886-00	430
10	1-102-947-00	68	1-101-888-00	470
11	1-102-948-00	75	1-101-890-00	510
12	1-102-949-00	82	1-102-971-00	560
13	1-102-950-00	91	1-102-972-00	680
15	1-102-951-00	100	1-102-973-00	820
16	1-102-952-00	110	1-102-815-00	
18	1-102-953-00	120	1-102-816-00	
20	1-102-958-00	130	1-101-081-00	

0.001μF = 1,000pF

MYLAR CAPACITORS

CAP. (μF)	RATING			
	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)
PART No.	PART No.	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.03
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082

1/4 WATT CARBON RESISTORS

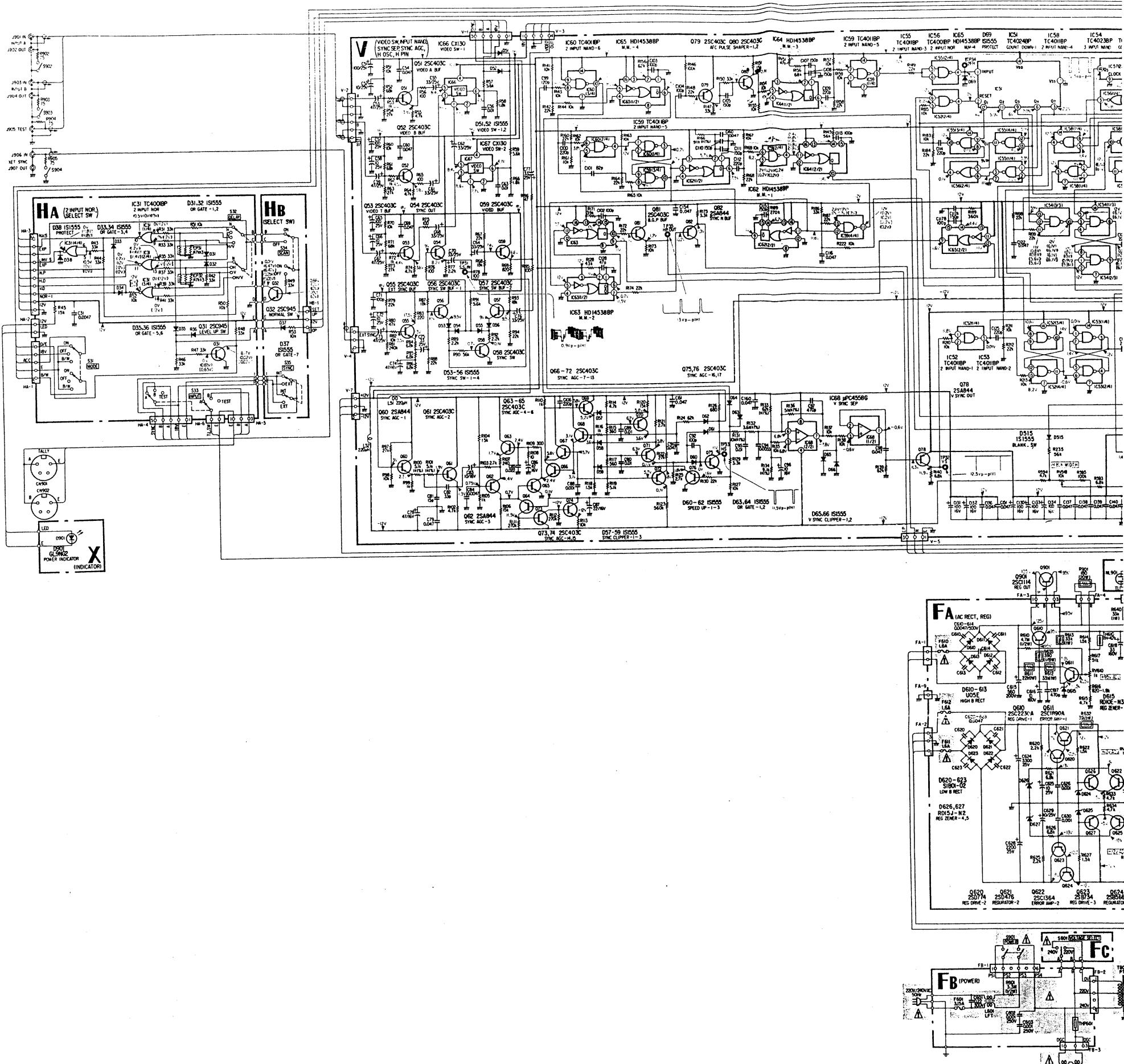
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1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00		
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00		
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00		
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-		

SCHEMATIC DIAGRAM

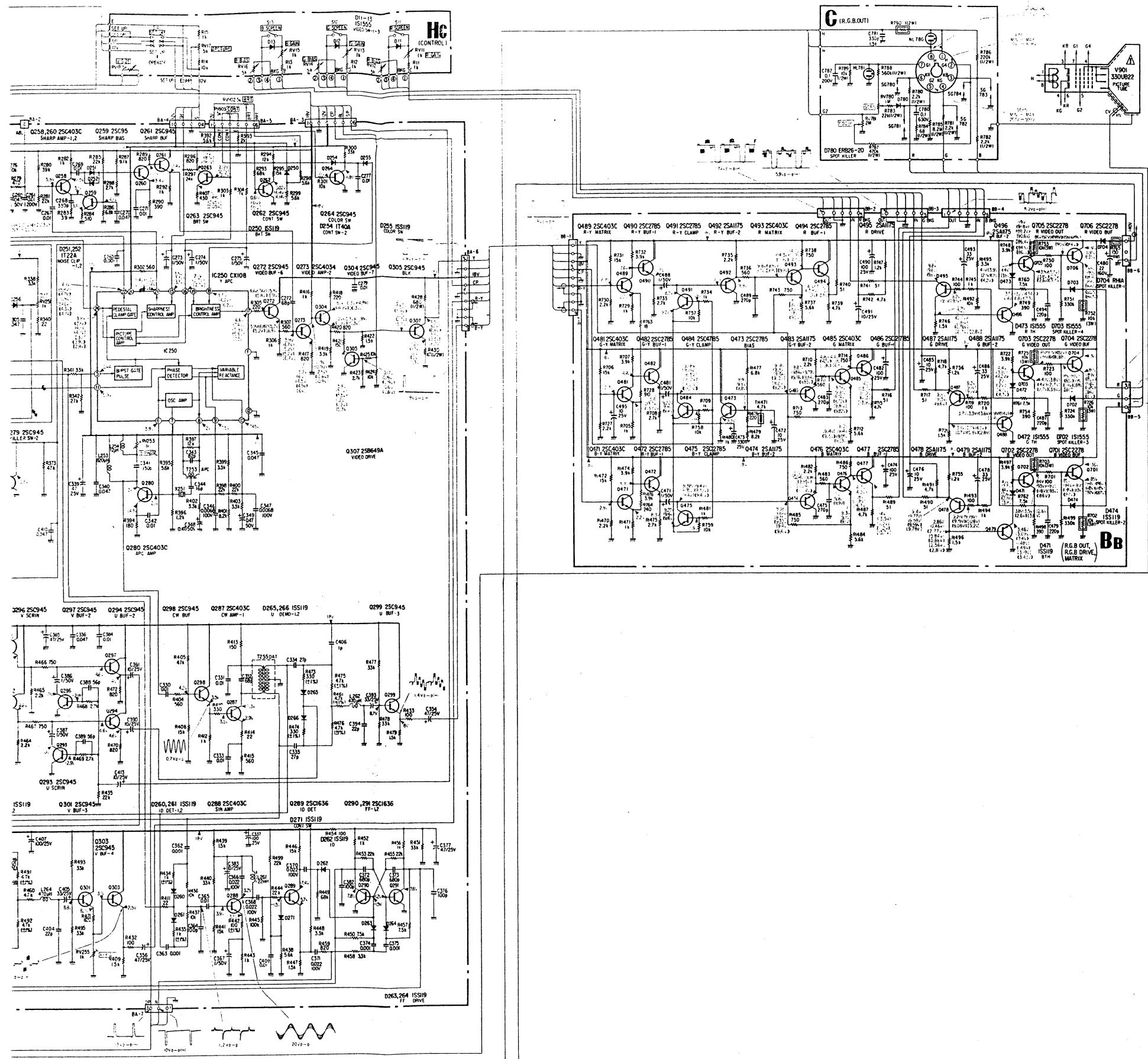
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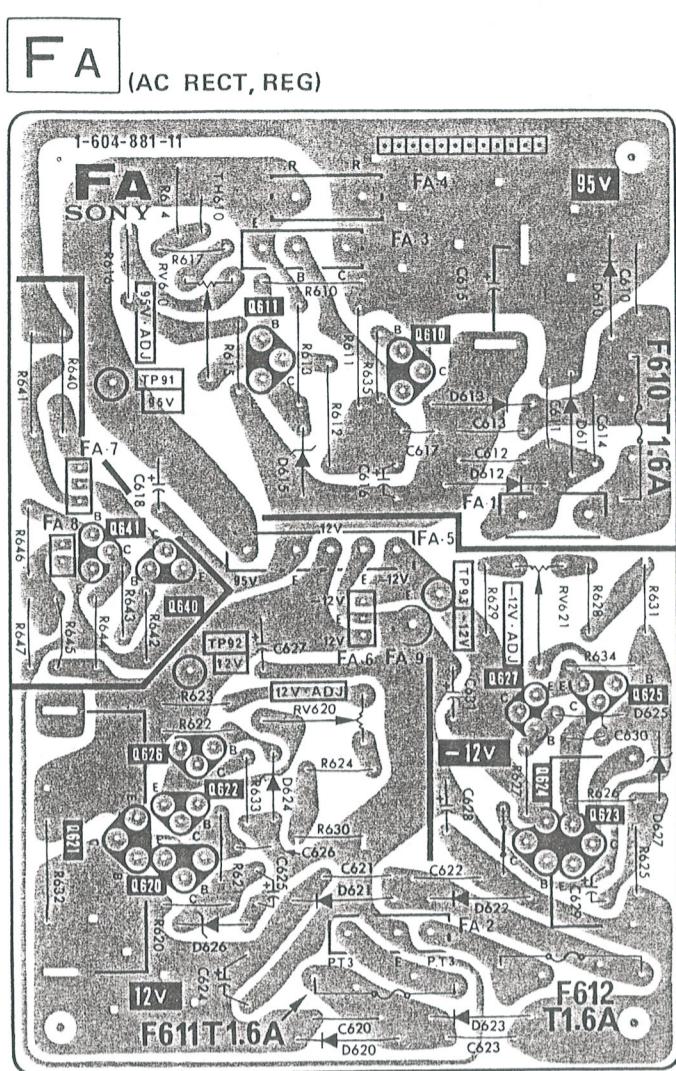
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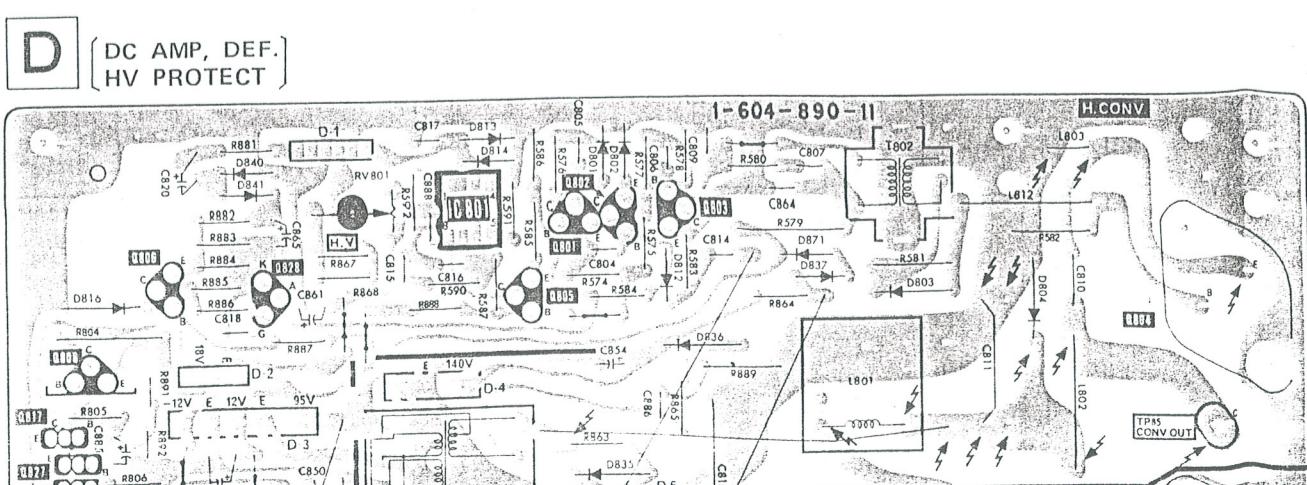
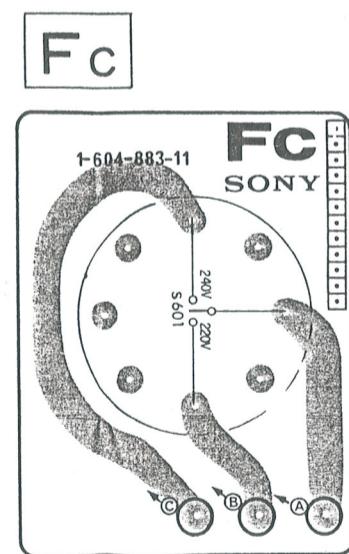
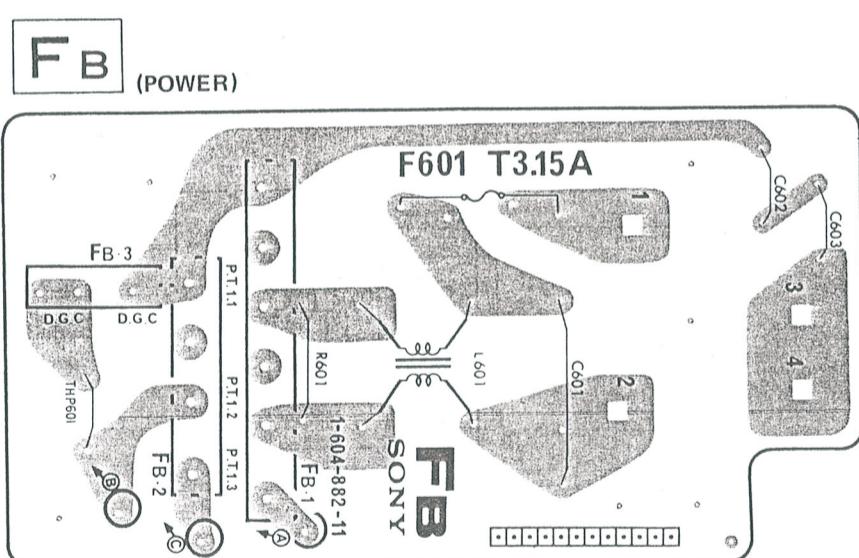
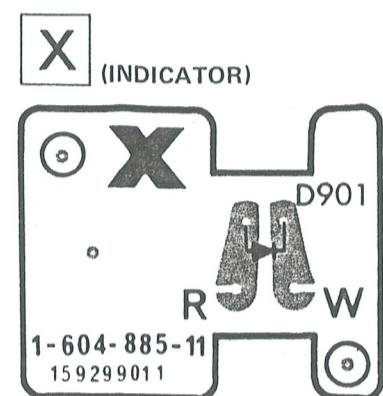
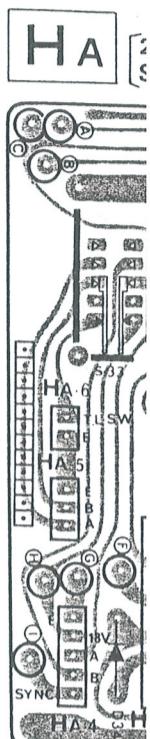
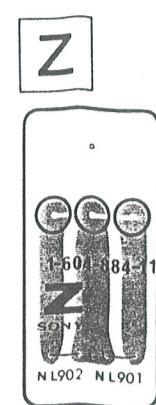




MOUNTING DIAGRAM



Q, IC	D	ADJ
	610	RV610
611 610	613 611	
	615 612	
641 640		RV621
625 627	625	RV620
626	627	
622 621 624 623	624	
620		
	622	
	621	
	626	
	623	
	620	
Q, IC	D	ADJ

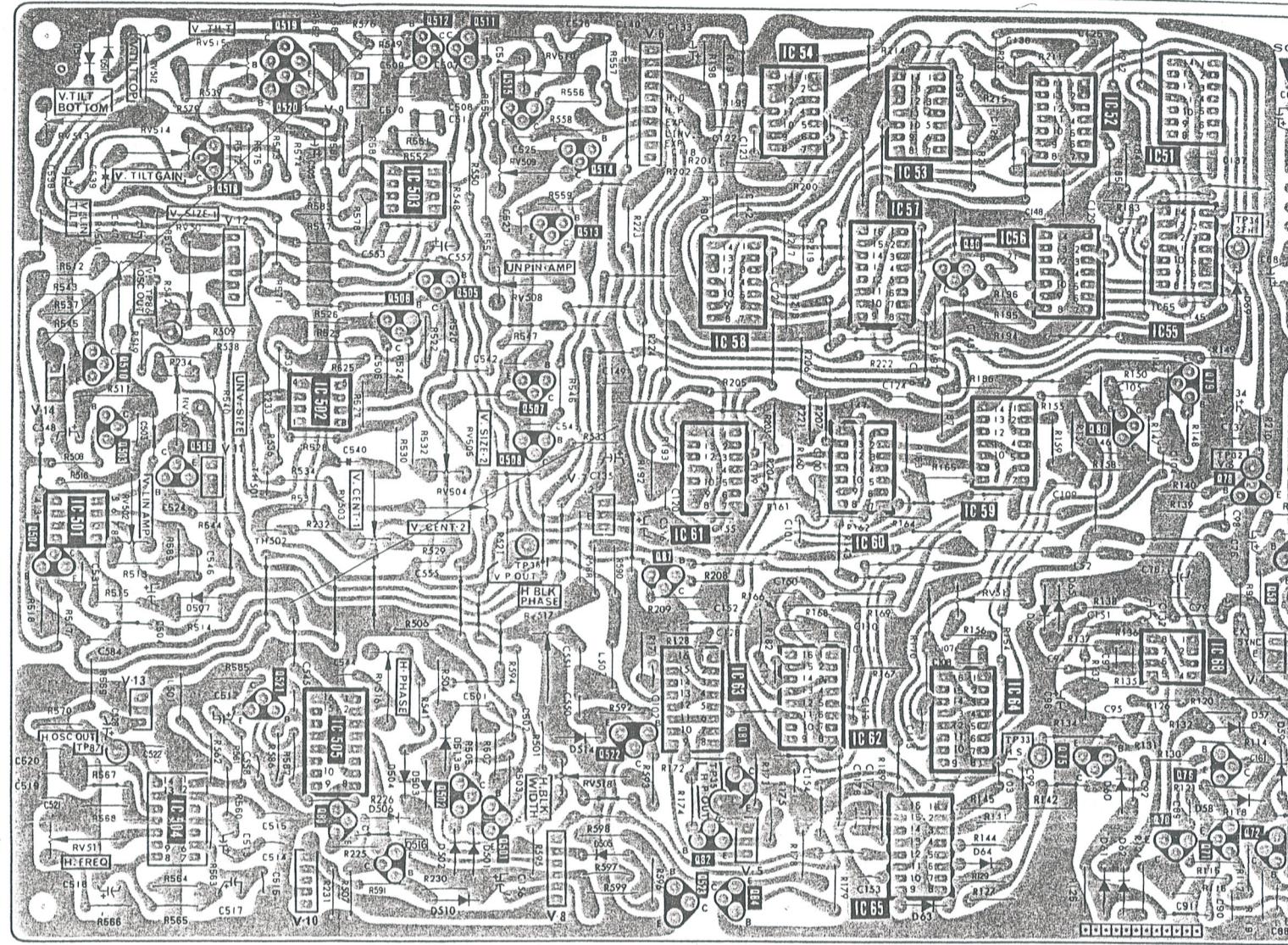
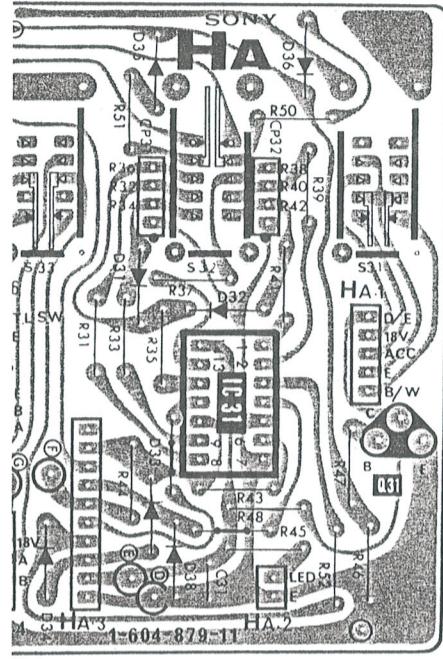


Q, IC	0	ADJ
	813 801 802 814 840 841	
IC801 801 802 803		RV 801
	871	
806 828 805	812 337 816 303	
	804	804
	836	
808		
817		
827		
818	835	

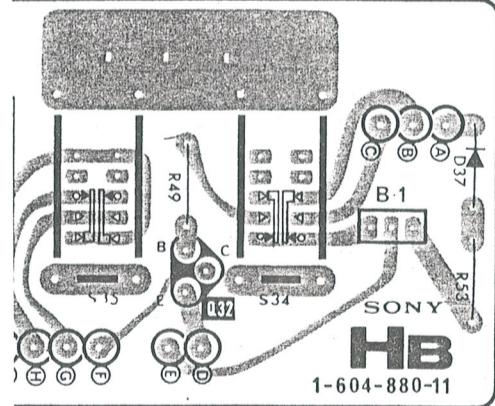
V [VIDEO SW, INPUT NAND
SYNC SEP, SYNC AGC,
H OSC, H PIN]

Q	510 504	510 503	518 509	519 520	IC502 IC505	512 506	511 505	515 507	513 508	514 522	IC58 87	IC54 IC61 82	IC53 IC57 IC60	IC52 86	IC56 IC59	IC51 75	IC55 79	78 76
IC																IC68 70	71 72	
0	512 511				504 506	513 503	502 510	501 514						66 63	65 64	60 61	62 58	57 55

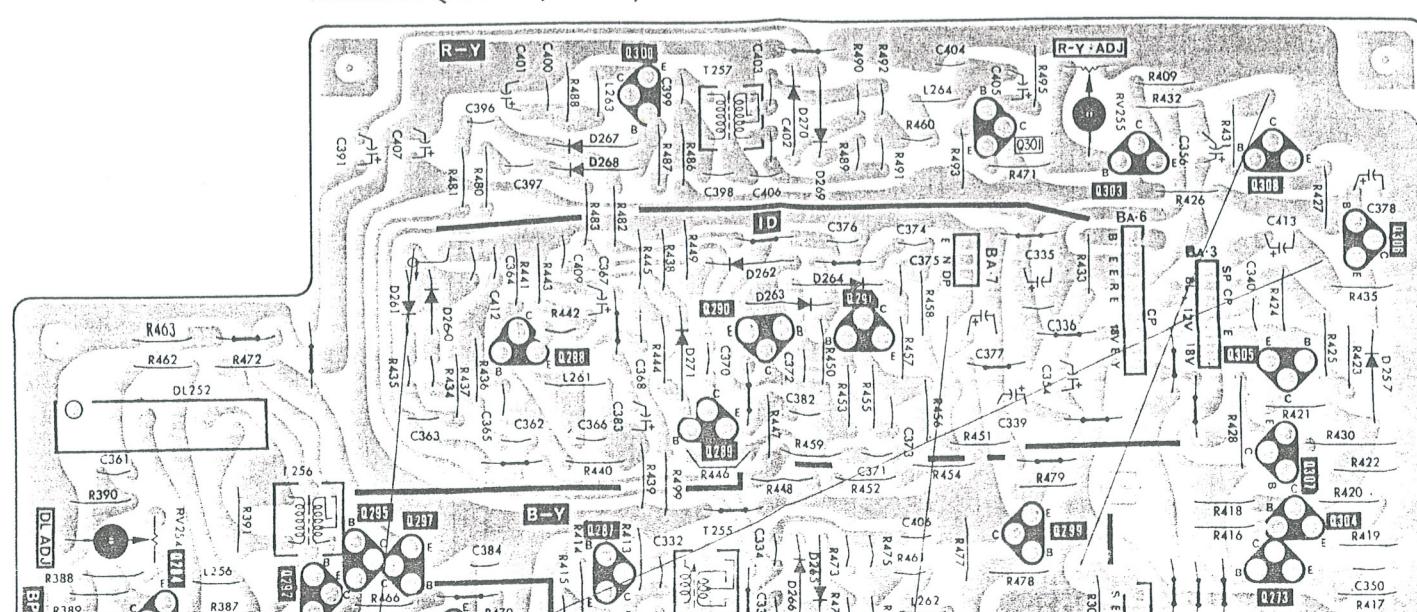
A [2 INPUT NOR,
SELECT SW]



HB (SELECT SW)

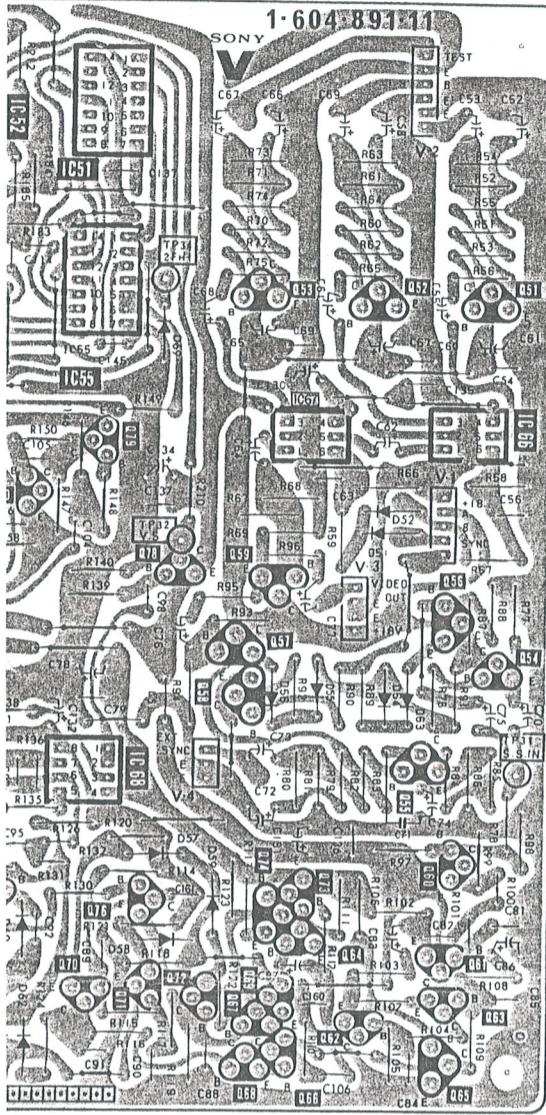


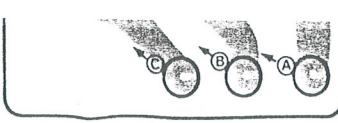
BA COLOR BUF
VIDEO DRIVE
ACC SW Y APC



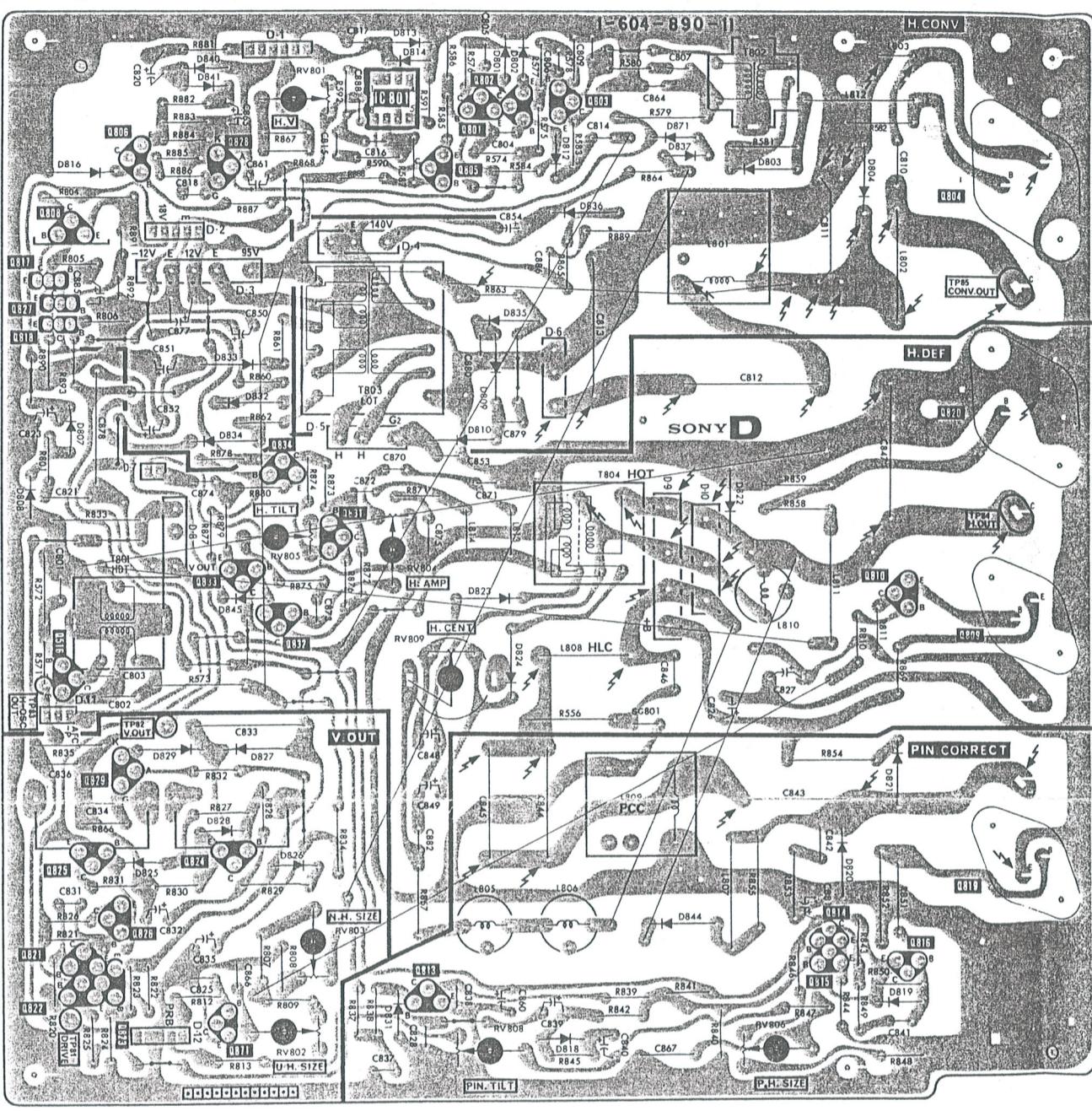
Q, IC	D	ADJ
300	270	
301	269	
303	267	
308	268	
		RV255
306		
	262	
	264	
	260	
	261	
	263	
290	291	
288	271	
		257
	305	
289		
	307	
304		
299		
295	297	
	287	
	273	
		265
292		
		265
284		

80	IC51	53	59	73	52	51	Q, IC
	IC68	57	58	74	64	IC67	
70	71	72	67	69	62	55	
60	62	58	59	56	55	54	
		57	58	59	56	55	
		59	56	55	54	53	
		69			52		
				51			
					52		
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					64		
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					79		
					80		



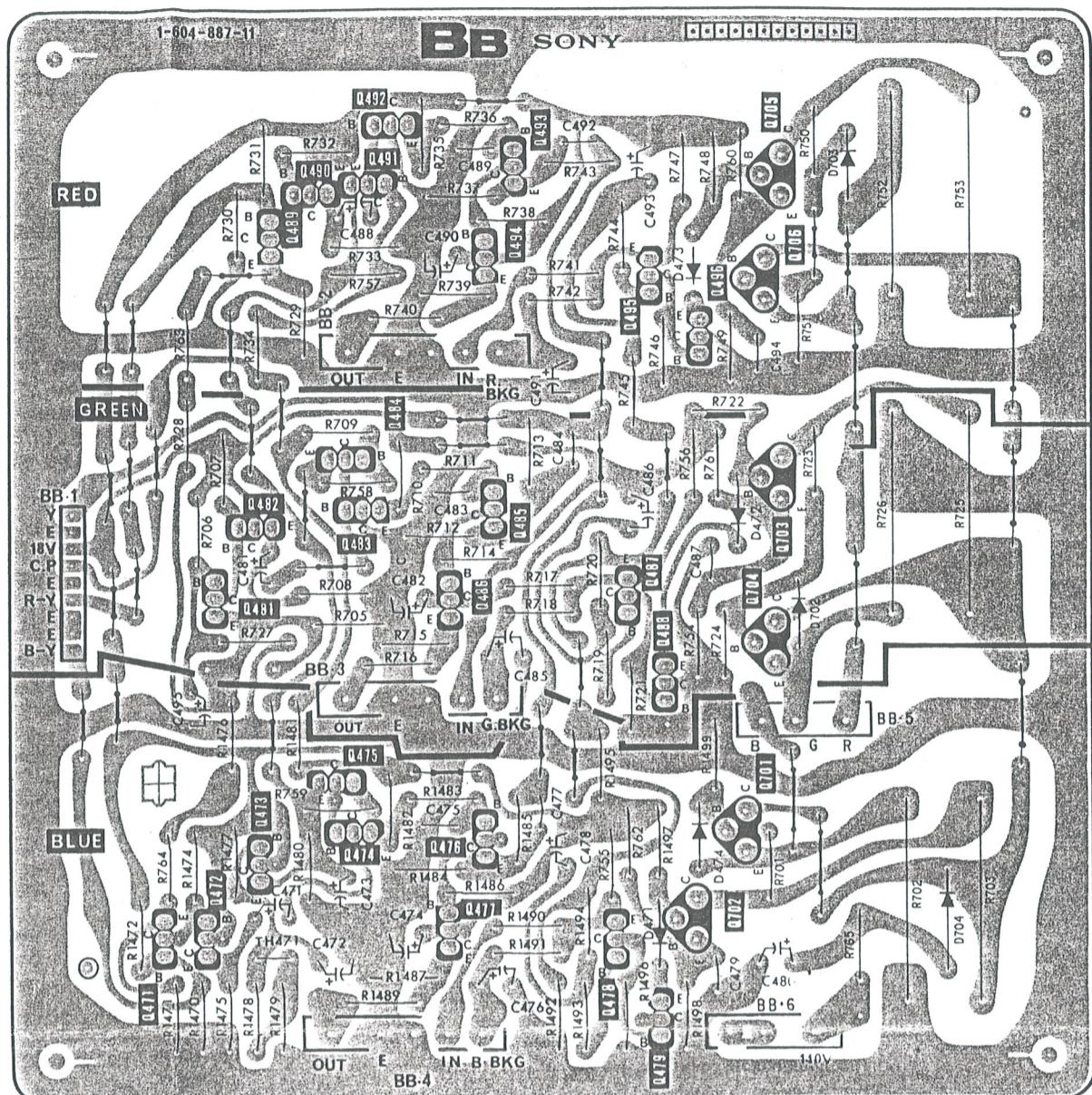


D [DC AMP, DEF.
HV PROTECT]



Q, IC	D	ADJ
	813 814 840 841	
IC801 801 802 803		RV801
	871	
806 828 805	812 837 816 803	
	804	804
		836
808		
817		
827		
818	835	
	833 809	
820	832	
	807	
	834 810	
834		
	808 822	
831		RV805 RV804
833		
810	845 823	
832	809	
516	824	RV809
	829 827	
829	821	
	828	
825 824	820	
	825 826	
819		
826		
814	844	
821 815 816		RV803
823		
822 813		
871	819 831	
	818	RV802 RV808 RV806
Q, IC	D	ADJ

B B R.G.B OUT,
R.G.B DRIVE,
MATRIX



Q, IC	D
492	
493	705
490 491	703
489	
494	
495 706	473
496	
484	
483 485	703
482	472
481 486 487	
704	702
488	
475	
474 476 701	
473	474
471 472	
702	704
477	471
478	
479	

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